

LINZDA

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LINZDA



LINZDA ELECTRIC VEHICLE USER MANUAL



Company profile

Zhejiang Lingxiang Vehicle Industry Co., Ltd. is located in China mold city -- taizhou huangyan. Is located in the distribution of electric industry, has superior geographical conditions and wide market resource. Companies strive to build “ LINZDA ” mini electric car production and sales. Now has mold workshop, auto, plastics factory, motor factory, coating factory, r&d center, energy management center and other branches and a number of engineering design and management personnel. With several scientific research units and inspection agencies has a long-term strategic cooperative relations. Each new energy electric vehicles have their own design patents. Each new energy electric vehicles are both comfortable and safe coexistence.

Efforts to make the demand more objective: professional maintenance and private customized services allow you to rest assured that the use of value-added feedback, allowing users to become a senior adviser to the company.

For the future, the spirit has a very clear idea, is the realization of the wings, car networking. The formation of the electrification of the power transmission industry, assisted by intelligent process, to ensure that the user's unique driving pleasure.

ATTENTION

1. Make sure wear appropriate safety belt correctly.

2. Inspection before driving:

- if all the lamps are working well;
- if windshield and rearview mirror are clean;
- if the position of rearview mirror is right;
- check the tyre pressure and tyre abrasion condition;

3. Braking

- avoid vehicle sliding when the power flameout;
- the abrasion of brake lining depends on working condition, and its replacing

frequency depends on the driver's habit and braking mode;

- make sure parking brake has been drawn back before leaving the vehicle;

4. If any warning tell-tale lighting during driving, please park the vehicle and check at once;

5. Electric appliance accessories

- All electric appliance accessories should be connected on the required position in right way by repair station;

6. Please maintain the vehicle according to the maintenance plan;

7. Detailed operation instruction of Radio player refers to “ Radio Player Operation Instruction ” ;

8. All the operations should conform to this manual. We are not responsible for any direct or indirect damages resulting from incorrect operations;

9. No unauthorized refit should be made, especially with such essential parts as electric appliances, braking, steering, suspensions and tyre systems. Zhejiang Lingxiang Vehicle Industry CO., Ltd is free of any responsibility for any direct or indirect damage due to unauthorized refits.

10. We beg your pardon for the vehicle is constantly updating, descriptions and figures in this manual may be not conform to be the vehicle completely.



FORWORD

Thank you for choosing LINZDA vehicle.

Before driving, please read this manual to know your LXD-M3 FREE. It will help you to obtain the maximum pleasure from your vehicle and decrease drive failures. You should always keep them in the vehicle and pass them on to the new owner if you sell the vehicle.

All data referred in this manual is up to the minute. As Zhejiang Lingxiang Vehicle Industry Co., Ltd is constantly updating its vehicles to the state of the art and therefore this manual may be renewed without immediate notice.

Note: Optional equipments are also described in this manual, so there may be some explanations not conform to your vehicle.

Zhejiang Lingxiang Vehicle Industry Co., Ltd
February 2017

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Section 1 Important note

Some signals showed in manual as follows:



This signal note the best way to use your vehicle.



This signal with warning information, read it carefully to avoid damaging vehicle and for your and your family safety.



This signal is safety warning, means “ can not.. ”, “ can not do that... ” or “ can not make ”



Section 2:

Vehicle instruction and dash board

Vehicle instruction pic-1



Vehicle instruction Pic-2

1,Rear combination lamp 2,License plate position 3,Reflector
4,High brake lights 5,Tail door glass

Dash board Pic-1



1, Front lighting and signal switch 2, RH vent 3, Steering wheel
4, Wiper and cleaning switch 5, Liquid crystal instrument
6, Shift button 7, Radio 8, RH vent 9, RH speaker 10, LH speaker
11, Electric accelerator pedal 12, Brake pedal 13, Horn button

Dash board Pic-2



1, Hazard warning flash light switch
2, Ignition switch
3, Temperature control switch
4, Volume adjust switch
5, Warm and cool wind switch button


Section 3 Start and driving

1、 Start note

- Make sure the charger has pulled out;
- Button to N position;
- Key on motor, make sure every indicator and signal lamp are normal

2、 Start procedure

- (1) Turn on main power switch;
- (2) Turn on ignition switch, meter and indicator self-inspection;
- (3) Shift to D or R position;
- (4) Step accelerator pedal gently and release parking handle at the same time.

 Please don't step on pedal when start vehicle, please step the accelerator pedal gently after start, cannot step pedal heacily to avoid damaging vehicle.


3、 Stop vehicle


Please operate base on following step:

- (1) Shift to N, pull parking handle tight then turn off vehicle;
- (2) If stop vehicle on steep slope, please turn wheel to sidewalk and jam the wheel by stone or block, if long time to leave the vehicle, please press main power switch and out off main power.
- (3) Don't put key at " ON " position to avoid battery discharge. And remember pull the key out, press emergency button.
- (4) Don't let the children stay in the car alone, and pull the key out and and take the key away if you leave the vehicle.

4、Parking

- (1) Pull up hand brake, don't press the button.
- (2) Before driving,make sure release hand brake completely.

 If parking brake is not released completely,will make brake parts overheat,effect the brake performance and wear brake parts.

 Make sure pull hand brake up tight,especially when park the vehicle on steep slope.

(3) Parking note:

- a.When park the vehicle on uphill,please shift to N gear,and turn the wheel to sidewalk,jam the wheel by stone or block.
- b.When park the vehicle on downhill,please shift to N gear,and turn the wheel to sidewalk,jam the wheel by stone or block.
- c.Please pull the key out if leave the vehicle,press main power switch and lock all doors,please try to park your vehicle on lighting place.

5、Brake system

- (1) All of brake system parts are safety part,so please maintain your vehicle in LINZDA after sales service center termly.
 - (2) Brake system use hydraulic brake,the braking effect is more clear,effective.Please stop your vehicle if brake system has the faults,and contant nearby service center immediately.
 - (3) When driving in the rain,through large puddles,or after washing,the brake discs can form a layer of water film,it will influence the normal braking effect,if this happens,please driving slowly and check brake performance,till ensure no problems then driving normally.
- Specially note:please replace the brake tube in repairing it to ensure the seal.

6、Shift using



△ Shift, the first vehicle to stop, light on the brakes, press the “ D ” file (forward gear) vehicles to move forward; vehicle stability, light on the brakes into the “ R ” file (reverse gear), the vehicle can travel backwards. It should be noted that, in order to ensure the life of the motor, the vehicle must be parked in order to hang forward or block.

7、Economy speed

Please drive the vehicle in constant speed to maximum the range. Driver can adjust the speed base on vehicle condition and loading.

8、Preparation before driving

- (1) Ensure safety, please inspect seat, safety belts etc.
- (2) Please make sure everybody has fastened safety belt and locked side doors, inspect rearview mirror.
- (3) Inspect all of indicators on meter are ok.
- (4) Please check defrosting model after choosing it shall be able to feel the wind blows to windshield.
- (5) Check the tire tread and the degree of wear. Pay attention to whether the stone, nails, glass or other sharp objects on tread, whether a drum kit, scratch, abrasion and other deficiencies. Once found, please replace the tire immediately, and inspect the causes of abnormal wear. Check the tire nuts and tighten degree, tire pressure is appropriate or not.
- (6) Please check side turning lamp, turning signal and other

indicators on meter are ok or not.

(7) Step on the brake pedal many times should can feel a little resistance.If feel the brake pedal too light or travel too large,please go to LINZDA service center to inspect brake system or adjust the brake pedal.

(8) Please check the battery and cable,battery capacity will be low in cold weather.

9、Running-in period suggestion

(1) In first 500Km running-in period,please drive in slow speed to extend vehicle life with good economy and power.

(2) Don ' t start vehicle in fast speed,don ' t speed up rapidly,brake hard and keep high speed long time.

(3) Don ' t drive vehicle over 30km/h speed in running-in period,and also over limit speed in rules.

(4) Please don't overload.

(5) Please don't tow vehicle.

10、Driving tips

Although vehicle has safety equipments and drive vehicle safely,but can not guarantee that no accidents or injuries occur.If you pay attention to following aspects especially,will protect you and the other passengers.

(1) Drive carefully,pay attention to the traffic,road and weather conditions,keep sufficient distance with forward vehicle.

(2) When changing lanes,please observe rear view mirror and light turning lamp in advance.

(3) Please observe other vehicle's action and signal lamp,cyclist and walker.

(4) In vehicle emergency stop,please press emergency brake switch.

(5) Driving on the water surface in rainy day,please travel slowly,the

wading depth cannot exceed the frame bottom,avoiding the fault caused by the motor inlet.


(6) Accelerating vehicle slowly and steadily.Avoid unnecessary acceleration and braking.As far as possible to keep constant speed.

(7) Must obey the traffic rules and do one good driver.


(8) Always keep a safe driving.Please turns slowly,avoid emergency turn or sudden movements.Improper operation will result in losing control or roll over.

(9) In the accident,safety belt not significantly easier than seatbelt casualties.So in the vehicle before leaving,to ensure that you and others are properly fasten the safety belt.


(10) Overcrowding and overloading are prohibited.

 Certain medications can make the person produces a feeling sleepy,thus affecting the driving safety,please ask your doctor or pharmacist before driving.

 A clampdown on drinking and driving!

 Don't pull the inner door handle in driving,avoid the door unexpectedly opened,causing the accident.

 Do not adjust the mirror position,do not release the safety belt to avoid accident.

 Do not shift when step accelerate pedal,otherwise it will lead to the transmission system was severely damaged, causing the accident.

11、 Vehicle inspection

Below are a few items to save costs and reducing harmful emissions proposal:

(1) Vehicle maintenance

Please inspect and maintain vehicle base on “ LINZDA electric sightseeing vehicle maintenance manual ” .

(2) Tire

Often inspect your tire is normal or not,also inspect whether the tire bulge,scratch,abrasion and other deficiencies.Once found,please replace the tire immediately,and examine the causes of abnormal wear.At the same time also should often check the tire pressure is within the normal range.

(3) Excess load

Don't load too heavy,the weight of the vehicle(especially driving in city) and its stability will directly affect the stability of the vehicle.

(4) Electrical devices

Strictly limit the electrical equipment necessary work time. Headlight, wiper, fan of heating device,which requires a lot of energy and reduce the range.

(5) Driving

Please keep constant speed, driving with economy speed can ensure the lowest power consumption.

12、 winter tire

If you decide to use the winter tires,please ensure four wheel install matched winter tire and tire pressure.

(1) Because of its special characteristics,long time running under normal environmental conditions,the performance of these winter tires will be below the performance with normal tires through the test has proved,so need to limit the use of winter tire.

The same tire (brand and appearance) assemble to the wheels, ensure the operation of the optimal security, braking and good operability. What need reminds is, the direction of rotation of the tire can not be reversed, and four tire must be replaced meanwhile.

(2) Tire anti-skid chain

Tire anti-skid chain depends on the current standards in different countries.Snow chains attached to the drive wheels (rear).After over ten meters away,refastening anti-skid chain.

(3) Running speed of the vehicle installed snow chains should not exceed 30km/h,or the maximum speed recommended in snow chains maker handbook.

13、 Long time no use vehicle

If you want to park vehicle long time,more than a week,follow the instructions below:

- (1) Park the vehicle in the open,dry and ventilated place as much as possible.
- (2) Tighten the parking handle.
- (3) Charge the battery fully and cut off main power switch.
- (4) Clean and protect the parts with protective wax.
- (5) Clean and protect metal parts with special products.
- (6) Open window glass slightly.
- (7)Covering the sightseeing car with silk or hollow plastic tarpaulin, don't use tight plastic cloth,it will hinder the sightseeing car surface moisture evaporation.
- (8) Keep normal tire pressure and periodic inspection.
- (9) Please press the main power switch,cut off main power after parking the vehicle.

14、 Notes

- (1) After the battery indicator begin to warn,please charge the battery in time;
- (2) If control circuit system has the faults in driving,please press the main power switch using label,and tow the vehicle to service center then inspect and repair the vehicle.
- (3) Please drive the vehicle constantly by economy speed,ensure the maximum range,battery and motor service life.
- (4) The vehicle in the cold case,battery activity will decline,the range will be shorter than in summer,this is a normal phenomenon.
- (5) Battery can not be left to stand too long time,need to recharge one month,if the battery is stored without charging after using,Otherwise it will greatly influence the service life of the battery,maybe will cause the battery scrap.

(6) When battery energy is exhausted system will automatically cut power off. But after that,the battery will rebound “ virtual ” voltage(voltage without power),so need to charge before using,otherwise it will cause excessive battery discharge,it will damage battery and can not be repaired.

(7) New battery has charged in factory,but not fully,instrument display full power is “ virtual ” ,the user needs to charge in time according to the use of.

(8) vehicle range: actual range will be affected by many factors (such as frequent brake, start,a rugged road, steep slope, luff, underinflated tires,overload,environmental temperature etc.)

(9) Prohibit users to install electrical parts or refit other normal parts,otherwise the user shall bear the resulting loss.

(10) Ensure your safety,please turn slowly.


(11) Prohibit climbing long time,if the vehicle in climbing process the speed slows down gradually,and eventually stop working,this is to protect the controller or the motor, controller protection function, which belongs to the normal normal phenomenon.

Section 4 Air conditioning system (for car air conditioning)


1、 Air conditioning system operation steps

First of all, when the power is normally open, complete ventilation operation switch on wind speed, and then according to the using demand for cooling or heating operation.


1.1 Ventilation operation


- ① When the power is normally open, the wind speed switch by continuous button “  ”, according to the requirements to control the size of wind speed.
- ② According to reduce wind speed switch, is the number does not display the air conditioning wind speed, close the ventilation function.

1.2 Refrigeration operation

- ① In ventilation mode, press the “ A/C ” button, display “  ” identity, into the refrigeration mode;
- ② According to the actual situation adjusting wind speed button, the outlet size and direction can get comfortable environment;
- ③ In cooling mode, press the “ A/C ” button again, don't show the changes in temperature, the closed air conditioning system.

1.3 Heating operation

- ① In ventilation mode, press the “ A/C ” button, display “  ” identity, into heating mode;
- ② According to the actual situation adjusting wind speed button, the outlet size and direction can get comfortable environment;
- ③ In heating mode, press the "A/C" button again, the logo does not display the changes in temperature, the closed air conditioning system.

 When opening, must first open the speed button to open the cooling or heating switch, otherwise easy to damage the

air-conditioning system.

⚠ When closing, it is necessary to turn off the cooling or heating switch, then turn off the wind speed button, otherwise it is easy to damage the air conditioning system.

Note: 1. In refrigeration mode, the system is self - locking and works only in the refrigeration mode. On the contrary, in the heating mode, the system self locking, only in the heating mode.

2. Use of air conditioning can affect mileage, please pay attention to energy saving.

2、Maintenance and maintenance

If appear insufficient air volume air conditioning system, should be timely check need filling refrigerant volume air conditioning system, air conditioning refrigerant filling method:

- ① Open front cover;
- ② If there is a bubble in the condenser, indicating that the air conditioning system cooling capacity is insufficient, the need for timely replenishment of refrigerant (R134a), in order to ensure the normal operation of the air conditioning system.

High pressure refrigerant
charge entrance

Low pressure refrigerant
charge entrance

Condenser



- Note:**
1. Add refrigerant to the designated place to charge, in order to ensure safety.
 2. Refrigerant filling quantity of 450 ml.
 3. Condenser should be cleaned regularly.

Section 5 Meter and control device

1、Meter

R When “ R ” indicator lights,means shift to reverse gear.

N When “ N ” indicator lights,means shift to neutral gear.

D When “ D ” indicator lights,means shift to drive gear.



↔ Turning indicator: turn signal lamp installed on the instrument panel is the green signal, it flashes means front and rear turning lamp work normally. If it flashes too rapid or does not work, please inspect the bulb. If open the turning switch and indicator does not work, please inspect the fuse, bulb and flash relay. Press emergency switch, two indicators will flash at the same time.

☞ High beam indicator: If this indicators lights means high beam lights.

🔋 Battery power warning indicator: Turn key to “ ON ”, when the battery voltage is lower than a certain value in driving, the last of the battery power indicator start to flash, at this time, vehicle only can drive 5-10 km, need to charge timely. As it indicate the battery voltage, due to the difference in driving state of vehicle (vehicle speed, acceleration), there are some voltage bias.

■ **Note:** In order to ensure record the mileage effectively , recommend that users reset subtotal odometer after a full charge (press the reset button for 4 seconds), often charging the battery less than 110 kilometers range, can effectively prolong the service life of the battery.

⚠ Brake liquid level indicator: when brake liquid level below standard level, indicator will light, must inspect vehicle at once.

● (Red) Battery charging indicator. When battery is charging, indicator will light, please don't drive vehicle. If or cable has the faults, indicator will flash.

● (Green) Battery full power indicator: when battery is full power, indicator will light, please pull out the charger.

Speed meter: show the speed (km/h), record the total mileage, and subtotal mileage.

2、 Ignition switch

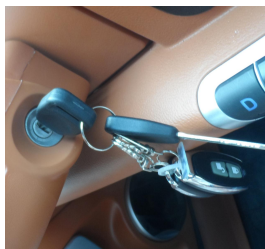
Off: turn key to this position, power will be cut off, can not drive the vehicle, but light system works (include radio, cigar lighter, lamps, heater, key can not be pulled out).

On: turn key to this position, powertrain system is switched on, can drive the vehicle, at the same time lamps and all of electrical devices work, key can not be pulled out.

Lock: turn key to this position, cut off whole vehicle power, lock steering wheel, can pull out key or inset key.

If can rotate the key at this position, please rotate the steering wheel from left to right slightly, then try to rotate the key again.

Please note can not rotate the key to "LOCK" in driving, otherwise will cause the steering wheel lock and accidents. Please note don't put the key in vehicle or leave child in vehicle alone.



3、 control switch

a、 headlight and signal switch

OFF: close all of lights;



Light position lamp, tail lamp, license plate lamp;



Light high beam, position lamp also be lighted;



Light low beam, position lamp also be lighted;

The vehicle does not work, do not let the headlight and other lights work too long time.

This will cause excessive discharge of battery.

In rain or washing vehicle there will fog in lamp lens, its same as glasses will fog in wet weather, its normal, it will be defrosted after

light lamps. But if the water gathered in the internal, please inspect your vehicle in service center.

Turning signal

After turning on turning signal switch(key at“ ON ” position), turning lamp will flash,turning indicator will flash at the same time.



b、wiper

wiper and washer have three tap position:OFF-LO-HI

OFF:close tap position.

INT: Intermittent stall, when at the point when the intermittent wiper arm action.

LO:low speed tap position,
wiper will work in low speed.

HI:high speed tap position,
wiper will work in high speed.

Washer switch:push up lever forward to steering wheel without loosening,Wiper nozzle will spray cleaner on the windshield to clean the dust and defrost and avoid blocking sight.

4、 Emergency lamp switch

When some emergency cases,must stop or parking vehicle,please press the switch to inform other drivers.

Emergency switch



At this time,all turning lamps will work,please note need to rotate key to “ ON ” position.

Parking in case of emergency or your car breaks down,please drive away road and stop,unless forced by circumstances,otherwise too slow driving will lead to traffic accident.After swithing on emergency switch,turning lamps will not work properly.

5、Radio

a, power on/off

The default mode is the radio.

Power on: in power off mode, press any key to boot.

Power off: in power on mode, press the volume knob long time to cut off.


After electrify, short press the power switch (POWmvt) to boot, long press this button to turn it off.

b、Mode shift

Mode button has BADast/POWmvt/EQclk/MODrca.

In power on mode, after inserting U flash and SD card, short press the volume knob, followed by “ radio USB\SD player radio ” mode conversion, LCD screen display radio frequency, “ USB ”, “ SD ” icon.

c、Waveband switching/automatic lock

In radio state, short press BADast for wavelength conversion (FM1 - FM2 - FM3), long press “  ” the key to automatically search station.

d、Volume control

Rotate the volume knob to adjust the volume within the 0-16 range, clockwise to increase the volume, counter clockwise to decrease the volume.



6、Nature wind switch

Natural wind switch located in the central plate beneath the radio, when the position of the ignition switch ON, press the switch, blower began work ON the instrument mist mouth and outlet blow out the natural wind.

7、Heater system

Warm wind system of the switch is A/C symbol ON the control panel, when the ignition switch in the ON position, must first natural wind button no role (or warm wind button), and then press the heater button, warm wind system began to work.

8、Rear view mirror

Outside rear-view mirror can be adjusted manually, before the first

driving,you must adjust left and right rear view mirror sitting in the driver ' s position to the most suitable position, it can be folded in special condition.

9、Cigar lighter

When the ignition switch is rotated to “ ON ”position,can operate the cigar lighter.Press the cigar lighter,it will automatically return in available,and rattle.Pull out it and use.After using,insert the cigar lighter into initial position,when not using,please don ' t take it out of the socket,because the socket may be blocked by external material,and cause a short circuit.

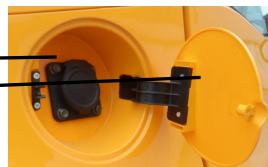
To avoid burn,please don't touch the heating element or housing expect handle,and also don ' t allow children plays cigar lighter.After pushing 30 seconds faied to eject,it has the faults.If cigarette lighter can not eject automatically,please repair it in service center.Please note if the cigar lighter insert into position too loog time or insert lighter from other vehicle it will overheat or fire.Recommend cigar lighter socker uses lighter only,use other plug-in accessories will cause damage to the socket.

10、Charging interface

The charging flap after open in the vehicle with the hand, which will see the charging interface, open the charging interface of vehicles recharged after protective cover.

The charging interface protective cover

Charging flap



Section 6 Emergency

1、Flat tire

(1)If for some reasons,you need to park the vehicle on the road, please move to the right-hand side of the road as far as possible, avoid parking in the driveway.

(2)Tighten parking brake,put the triangle warning to a proper position rear of the vehicle(no matter day or night)

Please note:triangle warning with tools together!

(3)Tire blow-out

The tire was punctured and need to replace,firstly must comply with the safety precautions:turn on the emergency lamp.Park the vehicle in the non traffic routes and on the flat ground,make sure not to hurt you and damage vehicles.Tighten the parking brake,shift reverse gear,turn off the power,don ' t replace the tire on a slope or a bumpy road,because its very dangerous.

Blocking the wheel

When the tire is flat,please find some blocks to jam the rear rear wheels and prevent accidents.

2、Towing vehicle

(1)Traction premise

Please comply with the relevant local traction regulations when towing your vehicle.

Zhejiang Lingxiang Vehicle Industry Co recommends that please let the repairman tow your vehicle,incorrect traction will lead to accidents.

(2)Towing attention

To use the right equipment, avoid damage to vehicle traction.

The transmission mechanism of vehicle and steering mechanism must be able to work normally.

Please use reliable traction chain.Must release the parking brake in towing,and shift to neutral,turn the ignition key to the“ ACC ”position.

(3) Traction point (Lead position on the front bumper)

(4) Traction load

a. Tractor weight must be not less than towed vehicle, traction force must be less than the tractor weight.

b. Can not add one vehicle more then tow the vehicle. Traction force will include traction force from that additional vehicle , so total traction force will exceed traction vehicle weight, holes or mud will produce additional traction resistance, so will add traction load.

c. When the traction hook towing vehicle, to keep the traction angle less than 15 degrees. The traction angle is too large, may result in damage to the vehicle, and even make the vehicle with 180 ° turning, pull the vehicle from the sand, snow or mud, must make cable from the front straight out, not forming an angle with the hook.

(5) Traction speed

Slow traction vehicle forward, avoid the impact force. High impact is very dangerous, may cause the traction rope fracture, damage to vehicles. If you want to pull the vehicle from a pit or mud, please ensure keep the distance with traction rope or pole. Once the traction rope fracture, will have very big risk.



Traction point

3、Towing by tractor

(1) Wrong traction method

Can not use the method as shown in Pic(type A) tows vehicle by slings, using slings will damage the front bumper and front structure.

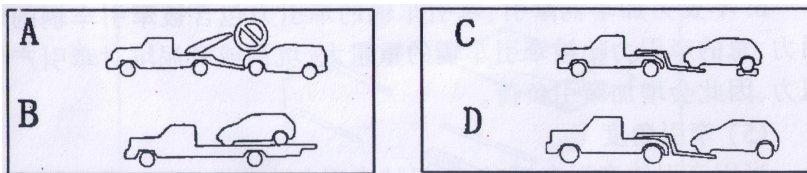
(2) Correct traction method

a. If the vehicle must be towed over 50km, all wheels must be off the ground (type B or C), as shown in Pic.

b. If the motor or differential gear is failed, all wheels must be off the ground (type B or C), as shown in Pic.

c. The front wheel off the ground traction (type D), please shift to N gear (N gear, release parking brake.)

Note: Can not tow the sightseeing car from the backside when all the wheels on the ground, because it may cause serious damage to the motor or the differential gear.



When the vehicle failure, if there is the obvious resistance by pushing the vehicle, please don't push the vehicle by force, otherwise may cause damage to the motor or other security issues. This kind of situation, must use type B or C method to tow the vehicle, or ask professional service staff to cut off three-phase electrical of motor before towing.

4、Inspect and replace fuse

Using the key to open the front panel in the front of the vehicle, has a fuse box with various types fuse at the lower part, pull off and check whether the fuse is good one by one.

If the lamp or other electrical components do not work, should check the fuse, if the fuse has been burned, it needs to replace, fuse box has three spare fuse. Turn ignition switch and ineffective parts off, pull out fuse and check them.

If the fuse has burned, should be replaced by the new one. Only can install same amperage fuse marked on fuse box cover, if cannot find the same amperage fuse, please use lower amperage fuse, but must install the correct fuse as soon as possible, please keep the replaced fuse for using again. It is best way to buy a set spare fuse,

put in the car for emergency use. If the new fuse is burned immediately, maybe the electrical system has the faults. Please inspect the vehicle in LINZDA service center as soon as possible.

Never to use the fuse is higher than the rated amperage, or any other object to replace the fuse, otherwise it will cause serious damage and may cause fire.

Section 7 Clean and maintenance

1、Front panel disassembly

(1)Start wiper,when wiper arm come to the top,please turn off the key,keep the wiper arm at that top position.

(2)Please dismount two side self tapping screw by screwdriver.

(3)Use the key to open the front panel lock,gently lift the front panel then can be removed.

2、Inspection

(1)Wiper washing

Wiper washing function is improving vision visibility,please check the liquid level.Washing composition as follows : at normal temperature is cleaning water and hardness less than 205g/1000kg. Low temperature ($-18\text{ }^{\circ}\text{C} \pm 3\text{ }^{\circ}\text{C}$): with the concentration of 50% methanol water solution.Prohibition driving without washing.

(2)Brake liquid

Turn the key to ON position,if brake fluid indicator lights,namely the brake fluid level is too low,timely check the level between the highest mark(MAX) and the lowest mark (MIN).If you need to replenish liquid,only can use DOT4 synthetic brake fluid.

Note:the brake fluid will absorb moisture.Therefore,if the vehicle is used in the humidity higher area most of the time,brake fluid replacement frequently should be faster than usual,please go to LINZDA service center to inspect and replenish brake fluid.

Brake fluid is harmful to the human body and is corrosive,if accident contact , please wash related body parts with cleaning water and neutral soap immediately,and repeatedly wash.If put in mouth by accident,seek medical advice immediately!

(3)Battery

Running 15~20 days shall timely check the battery electrolyte and timely replenishment.(Note:each battery electrolyte hole should be

replenished one by one) Maintenance free batteries do not need to check the electrolyte.

3、Lamp maintenance

A、Introduction

Operating light switch to check all the lamps are working.If the lamp is not lit,usually due to fuse or bulb failure.First check the fuse,if fuse is not burned,then check the bulb.If fuse and bulb is ok,please drive your vehicle to LINZDA service center to repair.

- (1)High beam/low beam of headlight-----35W*2/35*2,white
- (2)Position lamp of headlight -----combination LED lamp
- (3)Turning lamp of headlight-----10W,white
- (4)Rear combination lamp tail lights -----combination LED lamp
- (5)High brake lights -----combination LED lamp
- (6)Reading light ----- 3W,white

B、General rules

- (1)Ensure lamp is turned off before replacing bulb,and inspect whether corresponding contact point is oxidized or not.
- (2)Please replace the broken bulb by same model and power new bulb.
- (3)Please inspect the high and low beam of headlight after replacing their bulb.
- (4)The internal surface of headlamps will cast a thin layer of water vapor in the morning,it ' s not a problem,is a normal phenomenon in low temperature and moist air condition.That will quickly disappear after lighting lamp .The water appears inside headlight,namely the water infiltrate inside, please drive your vehicle to LINZDA service center to repair.
- (5)Do not use dirty gloves to hold the bulb.The oil on your hand will affect the bulb replacement next time.If the glass surface dirty,must use alcohol,paint thinner to clean.Completely dry and then reinstall.

C、Light position adjustment method

Height adjustment method: a position for left and right headlight insert screwdriver, clockwise turning, lift up light, lift down light conversely.

Left and right adjustment method: b position for left headlight, insert screwdriver, clockwise turning, turn light to left, conversely to right. Conversely adjustment for right headlight.

4、Cleaning

Often use vacuum cleaner or soft brush to clean the dust on decorative pieces, plastic pieces and seat inside the car. To scrub the vinyl plastic and leather surface with a clean soft cloth stained with weak alkaline soap water, then with a dry soft cloth. Before using any fiber protector, you should read the manufacturer's instructions. Some fiber protector containing chemical agents, will make the seat leave stains or fade. Never use gasoline, thinner or other solvents.

In the process of cleaning vehicle, the cab is strictly prohibited to flush water directly, should avoid water flows into the body of the charging socket. Prohibited the use of high-pressure water rinse chassis parts, so as to avoid internal electronic components and circuit accidents caused by wet.

■ Wet controller, electric circuit or motor, will cause short circuit and damage to the electrical equipments.

5、Anti-corrosive measures

(1) The most common causes corroding sightseeing car.

a、Wet dirt, dust or debris in the body plate, hole and other parts of the body.

b、The sand blow or coating resulting from minor accidents or other protective layer damage.

(2) Environmental factors affecting corrosion rate

a、Moist

Accumulated sand, dirt and moisture in the lower body will

accelerate corrosion. The place accumulated snow and ice under the floor of the vehicle is not easy to dry.

b、Relative humidity



Note: Corrosion would be accelerated in the following cases:

high relative humidity area, temperature above freezing point area, air pollution area, using road salt area.

c、Air pollution

Industrial pollution, the salt in the seaside air and using too much road salt, will accelerate corrosion process.

(3) Protection against corrosion of vehicle

Always scrub and wax to keep the vehicle clean, often check the paint if there are small damage and repair it as soon as possible, keeping the hole of door bottom and rear shield is unobstructed to avoid water, check the lower body, if there is sand, dirt and other salts, using water scrub clean as soon as possible, do not wash the dust, sand or other sundries inside passenger compartment, should use the vacuum cleaner or brush.

Do not let water or other liquids contact electronic compartments inside the car.

6、Self maintenance



Note: some of the daily and regular maintenance is necessary for keeping good mechanical properties of vehicle.

The user should arrange special maintenance and general maintenance. As the owner, you are the only way to ensure your vehicle maintenance.



General maintenance including some items checked in daily driving, if you want to keep your vehicle in continuous normal operation, this is the most basic requirements. In the daily use of the vehicle, should be regularly carried out general maintenance, if you

are aware of any abnormal sound,vibration or smell, must check the reason or let service center inspect your vehicle quickly.In addition, if you think that your vehicle needs repairing, please contact with service center in time.

Here is a list of maintenance projects should always be carried out,unless there are special provisions:

(1) Tire

Check the tire pressure with tire gauge regularly in service center,must be adjusted to the specified pressure.

(2) Wheel nut

Check the tires,ensure wheel nut without loose.Check whether the loosening of the wheel nut,tighten nut according to specified torque within 1000km ranges.

(3) Wheel alignment and balance

When driving on flat road,if the vehicle is tilted to one side always,or you are aware of the tire uneven or abnormal wear,it is necessary to align the wheel.

(4) Wiper brush

If brush works abnormally,please check whether there are cracks or wear.

(5) Lamp

Confirm the front combination lamps,rear combination lamp and other lamps work normally, be installed firmly,and check the lighting in regular maintenance, cleaning vehicles etc.

(6) Warning lamp and buzzer

Confirm all of warning lamp and buzzer work normally.

(7) Wiper and washer

Confirm wiper and washer work normally and brush without cracks.

(8) Defroster

Check the wind from vent is normal and enough in using heater.

(9) Steering wheel

Check the whether steering situation is changed, such as free travel is too large or abnormal sound.

(10) Accelerator pedal

Confirm the pedal steady work, and check the free travel is normal.

(11) Brake

Check vehicle if there is deviation in braking, brake lining is excessive wear or not.

(12) Brake pedal

Check whether the pedal steady work normally, free travel is normal, and confirm the pedal is stepped to the end, should reserve trip.

(13) Parking brake

Check whether parking brake travel is normal.

7、Regular maintenance

(1) Regular maintenance project must be carried out in the specified time interval, it is requirements to ensure that your vehicle's power system and mechanical system in good performance. These works shall be done in LINZDA service center. Note that running under bad conditions, it needs extra or frequent maintenance. Periodically, the maintenance is your responsibility.

(2) The initial compulsive grinding maintenance

In the early of 500/2000 km compulsory maintenance is one of the most important maintenance, ensure your vehicle to achieve the best state is very important.

(3) Where to do regular maintenance and repair

Every two thousand kilometers for regular maintenance period. Reach the maintenance time or your vehicle has the malfunction, please inspect and adjust your vehicle in LINZDA service station. Repair technicians in LINZDA service center are professional personnel be trained with regularity. Through the technical manual, repair, and repair service center training courses to get the latest repair information.

8、Battery maintenance

(1) The surface of the battery, pole and connecting bolt, connecting line should keep clean and dry. If the electrolyte splashed on body

please use cotton wipe clean,then wash and dry,ensure no water enters into battery.

(2)Battery connection must be kept in good.Always check the battery connection fastening and nut loosening,lest cause spark in driving to ablate electrode.

(3)Don't place any conductive materials on battery,can not connect the battery positive and negative poles directly to avoid cause a short circuit and damage the battery.

(4)After battery discharge (regardless of vehicle ranges and driving time) ,must be charged timely,charging time should not exceed 24 hours delay.

(5)Beacuse the electrolyte water electrolysis and evaporation will cause the density increases and the level lower in using,so should always check.

In the charging of the battery terminal,please adjust electrolyte density to 1.28 ± 0.005 (25°C) by 1.400 density dilute sulfuric acid specified for lead acid battery, make the liquid height same as max. level,continue to charge 0.5-1 hours after adjustment, so that the internal consistency.



Note:In order to ensure longer life of your battery,please go to LINZDA service center to fill battery electrolyte.

(6) During charging,please put the vehicle at airy place, and open the battery cover,after charging,tighten liquid injection cover , ensuring smooth gas.Don ' t in charge at smoking or stack flammable goods place.

(7) When close to lead-acid battery service life,battery capacity will decline rapidly, must replace the new battery.The new battery must be the same with the original vehicle battery manufacturers and some model.And the similar voltage battery cell as a group (full charge, the difference between the highest voltage shall not exceed 1.1V).



Note:please go to LINZDA service center to replace the

battery,strictly prohibited to replace battery by yourself, otherwise it will cause electrical parts burn out,or even more serious safety accidents.

9、 Battery charging method

(1)The following preparations should be performed before Charging:

- a、 Check the charging equipment, instructions and tools, shall timely prepare or repair them if there is a lack of or failure.
- b、 Must turn off the key.
- c、 Must use specified charger to charge and avoid damage the battery.
- d、 Open the charging protective cover.
- e、 Please check the tightening of every connection parts.
- f、 Must charge at airy,dry,no direct sunlight place.
- g、 Start the main power switch.
- h、 Must ensure that the socket is inserted in place, and the locking screw socket.

(2) Charging method

- a、 Power supply socket must match the charger plug.
- b、 Charging voltage is 220V.
- c、 Disconnect the ignition switch,shift to neutral gear, remove the key,pull the handbrake,the main power button is at start place.
- d、 The charging plug is inserted into the charging port and tighten,corresponding instrument indicator lights:

The red light on: charging;

Red light flashing:charging abnormal,please check the charging circuit is connected or charger fault.

The green light on: full power,namely completion charging.

Note:A charging time is about 5 ~ 6 hours,after full charge,the charger will automatically cut off power supply.

Note:Due to the charger power is about 2000W,in order to ensure the safety if charging,must use special air conditioning socket, cable shall be not less than 1.5 square copper wire.

10、Traction motor maintenance

Always clean up the case of sediment and other attachments, to facilitate cooling.

11、Rear axle maintenance

(1)Always remove the dirt,dust on rear axle ventilation plug.

(2)Always check the oil hole bolt and oil drain bolt,should timely tighten them or replace sealing gasket once have any leakage phenomenon.

(3)Cleaning ventilation plug each 2000 km:check the gear oil level in bridge shell (open oil level plug to check) .

(4)Check left and right bridge pipe fastening situation each 2000 km,check left and right “ U ” shaped bolt of bridge pipe fastening situation.

(5)The first oil change mileage is 800 km,must change the gear oil every 1500km later.Please make sure the service center is authorized by LINZDA before maintenance.You can believe that the authorized service center can meet the vehicle in the reliability and economy of maintenance requirements with best job.

Section 8 Parameter and specifications

(1)vehicle identification number (VIN)

The vehicle identification code is a unique 15 digit code that identifies the vehicle's identity. This code is not only reflected in the Chinese and foreign vehicle nameplate, open the right storage box can be seen.

(2)Vehicle mark plate

All kinds of vehicles have a nameplate, installed in the right store content box.



MAKE plate

Section 9 Loading and unloading

1、Fastening vehicle with frame,then lift vehicle and fasten on plate truck before transport.

2、Unloading the vehicle by forklift.



Note:To protect your vehicle and motor,please use specified oils(coolant,brake liquid,cleaning liquid etc.),all kinds of oil and liquid without matching test,maybe damage your vehicle after using.





LINZDA ELECTRIC VEHICLE PARAMETER AND SPECIFICATIONS

		Basic	Luxury	Police
Body	Body size:L×W×H mm	2350×1450×1550		
	Wheelbase mm	1570		
	Tread(Front/rear) mm	1250/1250		
	Min.ground clearance mm	160		
	Kerb mass Kg	650		
	Seats	2		
Power	Motor type	Brushless DC motor		
	Rated motor power Kw	4		
	Rated motor voltage V	60		
	Battery type	Maintenance free lead-acid		
	Battery capacity	60V 120Ah		
	Battery cell	5		
	Charger type	Car charger		
	Charging voltage V	220		
Chassis	Drive type	Rear wheel		
	Front suspension	Macpherson struts		
	Rear suspension	Integral damping		
	Body type	Unitary construction		
Brake	Brake type(front/rear)	Disc/disc		
	Parking type	Handbrake		
Wheel	Wheel size	135/70 R12		
	Wheel type	Alloy		
Performance	Economic power	8-10	8-10	8-10

	consumption Kw/h,100Km,full load			
	Max.speed Km/h,full load	55	55	55
	Climbing capacity %,full load	20	20	20
	Range Km,40Km/h	100	100	100
Outerior	Wiper	●	●	●
	Glass ceiling	●	●	●
	Open-type rear window	●	●	●
	Side sliding window	●	●	●
	Folding and adjustable outside rearview mirror	●	●	●
	Antenna	●	●	●
	Adjustable headlight	●	●	●
	Daytime running lights	●	●	●
	Combined tail lamp with LED	●	●	●
	Rear reflector	●	●	●
	High brake lights	●	●	●
Interior	Safety belts	●	●	●
	Leather seat	●	●	●
	Lighter	●	●	●
	Digital meter	●	●	●
	Brake liquid level alarm	●	●	●
	Radio with USB/SD/Clock	●	●	●
	Hi-Fi speaker	2	2	2
	Blanket	●	●	●
	Defogger	●	●	●
Police equip	Long alarm lamp	-	-	●
	Siren wailing	-	-	●
	Lamp support	-	-	●

Section 10 Common electrical failure and inspection process

NO.	Common faults	Processing flow
1	Vehicle without electricity	Check whether the “ emergency button ” is raised
		Check whether the insurance is burn out
		Check whether the ignition key switch is rotated
2	Vehicle is unable to exercise	Check whether shifting device insurance burn out
		Check whether the ignition key switch is rotating to the driving gear, clockwise until not reverse
		Hang forward gears, check “ D ” symbols on the instrument
		Check instrument power indicator, a flashing, so in a timely manner to the accumulator
3	Air conditioning not refrigeration	Check whether air conditioning control insurance burn out
		Check whether windshield button opens the natural wind
		Check whether refrigeration button press
4	Wipers doesn't work	Check whether the wiper insurance is burn out
		Check whether the combination switch right hand switch is operating in place
5	Heater doesn't work	Check whether the heater's insurance is burn out
		Air conditioning type check windshield button opens the natural wind
		The air conditioning check whether natural wind button button failure
6	Position light not bright	If all not bright check whether position lamp insurance burn out
		Check whether the left hand switch on  location, location of the instrument on light symbols  whether the light
		If light not on individual position, check whether the bulbs burn out

NO.	Common faults	Processing flow
7	Turn signal is not bright	As not all bright, check whether turn signal insurance burn out
		Check the left and right steering on the meter indicates whether light symbols
8	Light not bright	Check whether the car insurance is burn out
		Check whether the left hand switch on  or  location, headlamps on the meter indicates symbols  or  Light up
9	Brake light not bright	Check whether the brake lamp insurance is burn out
10	Back light not bright	Check whether the corresponding insurance is broken
		Check the meter reverse gear indicating whether the symbol “ R ” in the light
		Check whether reverse buzzer work, such as work for reversing light bulb problem
11	Reversing buzzer	Check whether the corresponding insurance is broken
		Check if the “ R ” in the instrument is indicated
		Car reversing lamp is lit, if the light is reversing buzzer problems
12	Instrument is not bright	Check whether the instrument is broken
13	Radio does not work	Check if the radio is broken
14	Speakers don't work	Check whether the horn is burned off
15	Meter hand brake indicator light	Check whether the switch off the handbrake
		Check brake fluid is missing
16	Instrument on the reverse direction and neutral indicator lit up at the same time, reversing buzzer	Check if the gear is broken
Note: 1、 All insurance in the middle of the front cover of the central electrical box; 2、 Other failure to deal with the local dealer to solve the problem.		

Section 11 Three guarantees of regulations

Zhejiang Lingxiang Vehicle Industry Co., Ltd. of new energy vehicles, three guarantees of provisions

Respected Zhejiang Lingxiang Vehicle Industry Co., Ltd. product users: thank you for choosing our company's new energy vehicles, it can give you comfortable enjoy time, also for your life add color, from this day onwards, You have become our valued customers, your travel life always worried about the heart of every employee of the company, we are in the most sincere heart bless you: Family happiness, Safe and healthy! About our company Zhejiang Lingxiang Vehicle Industry Co., Ltd. new energy vehicles related to the provisions of the three guarantees to you as follows:

1、Definition of maintenance period

Maintenance period refers to the user from the date of purchase of the car (to the distribution unit issued a certificate of purchase) shall be the quality warranty time or mileage has been to prevail, both beyond any one is super three guarantees. In comply with the installation of the product under the condition of using and maintenance rules, ensure that the product quality problem caused by the fault, According to the types of parts, parts, assembly parts of different quality warranty three guarantees range:

①、A car for 12 months or 10000 km;

②、This product is sold 12 months or 10000 km mileage for warranty, two item is deemed to expire;

2、Following parts are vulnerable parts, does not belong to the scope of the three guarantees

①、The fuse, the bulb and the lampshade, the appearance of

the body parts, brakes, wiper, glass products, all kinds of sponge pad, the front and rear brake;

②、Plastic parts, rubber products (Sealing strip, sealing pad, rubber stopper, floor, cushion, etc.);

③、Vehicle fasteners.

3、Not “three guarantees” range

①、Out of warranty;

②、The user does not use the instructions for use, maintenance, maintenance caused by damage;

③、Normal wear;

④、Damage caused by irresistible factors, such as earthquake, fire, traffic accident and so on;

⑤、Non “Zhejiang Lingxiang Vehicle Industry Co., Ltd.” designated dealers and maintenance units caused by demolition and maintenance;

⑥、Use non “Zhejiang Lingxiang Vehicle Industry Co., Ltd.” parts and designated brake oil caused by bad;

⑦、Users found that the failure is not timely warranty, resulting in the expiration of the warranty;

⑧、Self modification, disassembly, repair;

⑨、Purchase of vehicles is a price reduction;

⑩、Not in the “three guarantees of rules” within the parts, no “three guarantees” vouchers and car purchase vouchers.

Part of the vehicle parts replacement standards

NO.	Accessory name	Three guarantees standard	Non three guarantees	Three guarantees term	Remarks
1	Ignition switch	Ignition switch is out of order or other keys can be turned on	Artificial damage	Six months or 6000 km	
2	Rim	Due to material leakage, fracture	Artificial damage	One year or 10000 km	
3	Combination switch	Switch failure, short circuit, electricity	Artificial damage	Six months or 6000 km	
4	Front shock	Fracture, serious deformation, failure, oil leakage	Artificial damage	One year or 10000 km	
5	Rear shock	Fracture, serious deformation, failure, oil leakage	Artificial damage	One year or 10000 km	
6	Combination instrument	Odometer is not displayed, mileage does not go	Artificial damage	Six months or 6000 km	
7	Body harness	Ground short circuited, ablation, unable to repair	Artificial damage	Six months or 6000 km	
8	Brake pump	Material failure, hydraulic brake system due to leakage caused by brake failure	Damage caused by improper use	One year or 10000 km	
9	Warm air blower	Motor does not turn, without heating, water heating, Water Leakage PTC	Shell crack, artificial damage	Six months or 6000 km	

Part of the vehicle parts replacement standards

NO.	Accessory name	Three guarantees standard	Non three guarantees	Three guarantees term	Remarks
10	Main driver seat	Crack	Artificial damage, adjustment damage	Six months or 6000 km	
11	Copilot seat	Crack	Artificial damage, adjustment damage	One year or 10000 km	
12	Drive motor	Not working or working abnormally	Artificial damage	Six months or 6000 km	
13	Controller	Not working or working abnormally	Artificial damage	One year or 10000 km	
14	Power battery	Leakage, crack, no access to electricity	Artificial damage, irregular replenishment, Maintenance damage	One year or 10000 km	
15	Relay	Do not work, can not fully charge	Artificial damage	One year or 10000 km	
16	DC converter	No output voltage, output voltage is too high or too low	Artificial damage	Six months or 6000 km	
17	Electric accelerator pedal	Not working or working abnormally	Artificial damage	Six months or 6000 km	
18	Emergency switch	Power failure or power failure	Artificial damage	Six months or 6000 km	
19	Gear box	Gear crack	Artificial damage	One year or 10000 km	

Part of the vehicle parts replacement standards

NO.	Accessory name	Three guarantees standard	Non three guarantees	Three guarantees term	Remarks
20	Electronic hanging gear	Broken, unable to repair	Artificial damage	Six months or 6000 km	
21	Steering column	Failure, bearing snap, fracture	Unscheduled maintenance damage	One year or 10000 km	
22	Steering gear	Fracture and direction failure	Artificial damage	One year or 10000 km	
23	Front swing arm	Fracture deformation	Artificial damage	One year or 10000 km	
24	Rear swing arm	Fracture deformation	Artificial damage	Six months or 6000 km	
25	Radio	Inoperation	Artificial damage	Three months or 5000 km	
26	Horn	No sound	Artificial damage	Three months or 5000 km	
27	Wiper	Motor does not work	Artificial damage	Six months or 6000 km	
28	Front and rear wheel brake	Brake system leakage, pump pressure decreased significantly, failure, fracture	Artificial damage	One year or 10000 km	
29	Condenser	No refrigeration, leakage	Artificial damage	Six months or 6000 km	
30	Compressor	Inoperation	Artificial damage	One year or 10000 km	
31	Evaporation tank	No refrigeration, leakage	Artificial damage	Six months or 6000 km	

Note: In addition to not belonging to the three guarantees range of vulnerable parts, not in three guarantees of the parts within the standard list to perform 6 months or 6000 km

(Whichever comes first, both beyond any midterm is beyond 3 guarantees)

Section 12 Forced maintenance item card

Compulsory maintenance item card

NO.	Content and requirements	Inspection and maintenance		Remarks
1	Check car vouchers (or effective proof) and other procedures are complete	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
2	Check the date of purchase, the mileage is within the specified range	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
3	Check vehicle status and appearance	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
4	Check and fasten the battery connection, the controller connection bolt	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
5	Check reducer lubrication condition, is not enough when adding	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
6	Check brake fluid level	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
7	Check and tighten bolts, nuts and other exposed bolts and nuts for full suspension, steering system, brake system, wheel, etc.	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
8	Check and eliminate the hidden trouble of all kinds of lighting and signal lamp	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
9	Check all kinds of pipe joints	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
10	Check the lubrication points of each lubricating point, when missing	Yes <input type="checkbox"/>	No <input type="checkbox"/>	

Section 13 Maintenance record card

Maintenance record card

Maintenance date	Mileage	Fault condition	Maintenance personnel	Remarks