

USER'S MANUAL

10 K Electrical Utility Vehicle
User's Manual



PREFACE

Thank you for choosing Kandi Electric Utility Vehicle.

- 1.This user's manual will provide the driver with information about safe operation instructions, maintenance and service.
- 2.Fully understanding this manual, complying with all the instructions and understanding the necessary knowledge in this manual will provide you with a happy, interesting and safe driving.
- 3.For the driving and maintenance questions about this electric utility vehicle, please contact your dealer or manufacturer.

User Notice!

Minors under the age of 16 or seniors over the age of 60 are not allowed to drive this electric utility vehicle! Not all people have the strength, appropriate age, skill and judgment to drive this electric utility vehicle. Electric utility vehicle are not toys, and they are dangerous when driving. Electric utility vehicle are different from other vehicles, such as motorcycles and cars. Even during everyday driving, cornering and driving over obstacles can result in a crash or rollover.

Read this user or operator manual!

- 1.Owners and all drivers of electric utility vehicle should carefully read this manual from beginning to end.
- 2.No one is allowed to drive this blade electric utility vehicle without reading and understanding the user's manual.
- 3.This manual is an integral part of the blade electric utility vehicle. Please always carry it with you. when the utility vehicle is sold, this manual shall be delivered together.



This manual emphasizes particularly important information. Please note the following:



WARNING!

To emphasize important safety information, words with a "WARNING" sign have a special definition:

It indicates a potential hazard that could result in SEVERE INJURY or DEATH to the driver/bystander and the maintenance and inspection personnel of electric utility vehicle.



CAUTION!

It indicates that special precautions must be taken to avoid damage to the electric utility vehicle.

Attention:

To emphasize important safety information, words with a "ATTENTION" sign have a special definition:

It indicates critical information to make maintenance easier or more clearly understood.

Warning! or CAUTION
<ul style="list-style-type: none">●The first part will identify potential hazards;●The second part describes what will happen if the warning or caution is ignored;●The third part describes how to avoid risks.

The product information collected and published in this manual is the latest at the time of publication. However, due to the continuous improvement of the product and other changes, there may be some inconsistencies between your electric utility vehicle and this manual. We reserve the right to change the product at any time without notice, and have no obligation to make the same or similar changes to the vehicles previously manufactured or sold.

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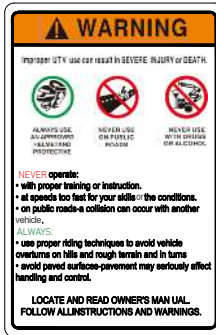
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IMPORTANT SAFETY LABELS

Warning labels on the car



Warning

Improper use of UTV may cause serious personal injury or death, Never operate:

- Without proper training or instruction.
- At speeds too fast for your skills or for the conditions.
- On public roads, it may collide with other vehicles.

Always:

- Use proper driving techniques to avoid vehicle overturns on hills, rough terrain and in turns.
- Avoid driving on paved surfaces, which may seriously affect handling and control.

Find and read the owner's manual.

Follow all instructions and warnings.



Warning

Operating this UTV if you are under the age of 16 increases your chance of severe injury or death. Never operate this UTV if you are under the age of 16.



Warning

Off road use only.



Warning

Fasten the seat belt before driving!



Warning

Improper tire pressure or overloading can cause loss of control.

Loss of control can result in severe injury or death.

Working tire pressure: set when the tire is cold.

• Minimum: Front wheel: 10psi (69kPa)

Rear wheel: 10psi (69kPa)

• Maximum: Front wheel: 28psi (193kPa)

Rear wheel: 28psi (193kPa)

Never set the tire pressure below the minimum value.

The tire may dislodge the rim.



Warning

Release the parking brake before driving.



Warning

severe injury or death can result if you ignore the following :

- Maximum cargo bed loading capacity is 200kgs (441lbs).

• Never carry a passenger on the cargo bed or area.

• Cargo can affect handling and stability. Read Owner's Manual before loading or towing.

• When loading with cargo or towing a trailer: Reduce speed and allow more room to stop.

Avoid hills and rough terrain.

• Be sure cargo is secured; a loose load could change handling unexpectedly.

• Keep weight in cargo bed centered and as low and far forward as possible.

Top-heavy loads increase the risk of overturn.



Warning

You could be severely injured if you try to stop a vehicle tip over using your arm or leg. If vehicle starts to tip over, keep arms and legs inside vehicle.

Slopes, uneven terrain, and turning too fast or sharp increase the risk of tip over.



Warning

Potential hazard

Not wearing a seat belt.

Wearing the seat belt improperly.

What can happen

There is an increased risk of being killed or seriously injured in an accident.

How to avoid the hazard

Always wear your set belt when driving the vehicle.

Be sure the seat belt is close-fitting across your hips and chest and is Latched securely.



Warning

Potential hazard

Driving with improperly operating brakes.

What can happen

You could lose braking ability, which could lead to an accident.

How to avoid the hazard

Always check the brakes at the beginning of each ride.

Do not operate the vehicle if you find any problems with the brakes. If the problem cannot be corrected through the adjustment procedure provided in this manual, have the vehicle inspected by an authorized dealer.



Warning

• Keep hands, body, other persons away when closing bed.

• Do not operate the vehicle with bed up.



Warning

• Passengers may be thrown off. This can cause serious injury or death.

• Never carry passengers in cargo box.



Warning

Never drive an electric UTV in water deeper than 8 inches. Do not drive fast through water.



Warning

The enclosure cannot protect the occupants in all foreseeable accidents, including rollover.

SAFETY

1. Before starting the vehicle for the first time, you must read and understand the user's manual and relevant warning labels.

2. Do not modify this electric utility vehicle in any way, which may make the vehicle unsafe or violate the law.

3. Minors under the age of 16 are not allowed to drive this electric utility vehicle.

4. The driver must wear motorcycle helmet with safety certification, goggles, gloves, long sleeve shirt and long pants, before driving this electric utility vehicle.

5. This electric utility vehicle is designed for one driver and one passenger, and it is not allowed to drive beyond the capacity.

6. Seat belts must be worn correctly, and ensure that the driver and the passenger fasten the seat belt before starting the electric utility vehicle.

7. Do not drive this electric utility vehicle on well-paved roads or public roads, which may cause the vehicle to become unstable.

8. Pay attention to changes in terrain conditions when driving electric utility vehicle. Drive slowly on unfamiliar terrain and be vigilant, otherwise accidents may occur.

9. Do not take drugs or alcohol before or during the operation of the electric utility vehicle.

10. Please read the pre-check procedures in this manual carefully before driving.

11. Keep hands, arms, legs and feet inside the electric utility vehicle at all times.

12. Do not drive an electric utility vehicle in water deeper than 20 cm (8 inches). Do not drive in fast-flowing water. Water can affect the braking performance of electric utility vehicle. After passing the water, check whether the braking performance is normal.

DESCRIPTION OF COMPONENTS POSITION



Induction key

Take the induction key (1) to the induction area (2) of the induction coil (there is a sign ● in the figure (2)), and operate as shown in the figure (3). When you hear a "tick", it means that the information induction is confirmed successfully.



One-key start switch

After the induction key is confirmed successfully, press and hold the brake pedal, and then press the one-button start switch. The whole vehicle is powered on, and the vehicle starts self-check. After the self-check, the central control screen displays "READY", and the vehicle is in a driveable state. Press the brake pedal again and press the one-key start switch. The whole vehicle is powered off, and the vehicle cannot run.

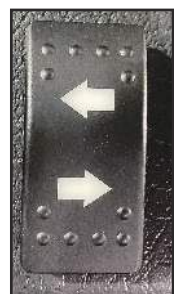


Shift gears switch

When the switch is in the middle position, it is in the neutral position. At this time, the "N" icon is displayed on the central control screen. When parking, the gear switch should be in the middle position.

Press the upper end of the switch to enter the forward gear. At this time, there is a "D" icon on the central control screen, and the vehicle is in the forward state.

Press the lower end of the switch to enter the reverse gear. At this time, there is an "R" icon on the central control screen, and the vehicle is in the reverse state.



Turn signal switch

When the switch is in the middle position, the turn signal is off.



Press the upper end of the switch (LEFT), the left turn signal lamp and the left rear turn signal lamp will flash, and the icon (left turn signal lamp ◀) on the central control screen will flash at the same time.

Press the lower end of the switch (RIGHT), the right turn signal lamp and the right rear turn signal lamp will flash, and the icon (right turn indicator lamp ▶) on the central control screen will flash at the same time.

Note:

When the turn signal is turned on, the flasher will flash and there will be an audible reminder.

Emergency light switch

Press the lower end of the switch, the front, rear, left and right turn signal will flash, and the icons ◀ and ▶ (left turn indicator and right turn indicator) on the central control screen will flash at the same time. After the switch is reset, all turn signals and relevant indicator lights are turned off.

Note:

When the emergency light is turned on, the flasher will flash and there will be an audible reminder.



Front and rear reflective strips

Improve the visibility of the car body and its retro-reflection characteristics at night will remind the driver behind to brake early to avoid traffic accidents; 2. Reflect the body contour.



Headlamp switch

When the switch is in the middle position, the headlamps are turned off.

Press the upper end of the switch, the headlamp is in the high beam state, and there are H and H icons on the central control screen.

the headlamp is in the low beam state, and there are L and L icons on the central control screen.



Cargo bed switch

When the switch is in the middle position, the cargo bed up and down function is turned off.

Press the upper end of the switch (UP), and the cargo bed will rise until it reaches the highest position and then stop.

Press the lower end of the switch, and the cargo bed will descend until the cargo bed returns to normal position.

Attention:

The cargo bed dumping operation can only be carried out when the vehicle is at a standstill and parked stably.

Note:

There is also a cargo bed up and down switch next to the charging socket under the left seat. Its function and operation are the same as those on the instrument panel.



Winch switch

When the switch is in the middle position, the winch is turned off.

Press the upper end of the switch ("IN") to retract the winch cable. Press the lower end of the switch ("OUT") to extend the winch cable.

Attention:

Before the winch cable is extended, first turn the winch clutch knob (1) to make the clutch knob in the "FREE SPOOL" state; Before retracting the cable, it is necessary to turn the winch clutch knob to make the clutch knob at "ENGAGE" state.



Horn button

This button is located inside the steering wheel logo. Press it to make the electric horn sound.



Reversing lamp switch and reversing buzzer:

When switching to reverse gear, the reversing light switch is turned on, and the rear reversing light will be on, and the reversing buzzer on the vehicle will make a sound to remind people outside the vehicle to pay attention.



Cup holder handle:

When the cup is placed in the cup holder, use the cup holder handle to fix the cup.



Backup switch

This switch is standby.



Remote App control: The user can remotely control the vehicle to power on or power off through the APP.



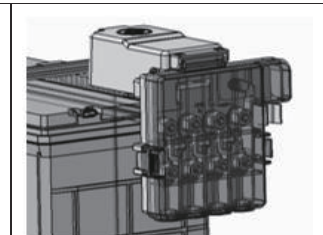
Charging socket

The charging socket conforms to SAE-J1772 and is located under the driver's seat. When charging is needed, open the locking tab of the charging socket cover to expose the charging socket.

Fuse box

The vehicle is equipped with two fuse boxes: one installed on the 12V battery and the other under the instrument panel in front of the passenger seat.

Elec winch	Power Light	EPS	DC-DC
100A	40A	40A	100A



Fuse function and fuse specification on the storage battery:

Battery	Display	T-BOX EPS OBD	Display T-BOX	Horn Light		Winch	Brake EPS	Battery DMCM	Flip case
电池	显示屏	T-BOX EPS OBD	显示屏	喇叭 灯光		绞盘	制动灯	电池 电控	货箱 翻转
5A	5A	5A	10A	15A		15A	10A	10A	20A

Fuse function and fuse specification under instrument panel in front of passenger seat:



Note:

When the fuse needs to be replaced, the same specification and model must be used.



1 2 3

Parking brake pedal

Press the parking brake pedal (1) for the first time and keep the pedal at a lower position, which can stop electric utility vehicle. Press the parking brake pedal (1) for the second time and the pedal returns to a higher position, which can release the parking of the electric utility vehicle.

Brake pedal

Pressing the brake pedal (2) can slow down and stop the electric utility vehicle.

Note:

Check the brake condition before operation.

Accelerator pedal

Step down the accelerator pedal (2) will increase the motor speed and promote the vehicle to move.



1
Steering wheel
adjusting handle

Steering wheel adjustment

Pull the steering wheel adjusting handle downward, and then you can adjust the steering wheel to a certain angle. After reaching a suitable position, pull the adjusting handle upward to lock it.

Attention:

Make sure that the steering wheel is in the proper position before driving an electric utility vehicle.



It is never allowed to adjust the position of the steering wheel while driving, which may lead to the danger of losing control of the vehicle.

PAD (central control screen)

PAD (central control screen) is located in the middle area of the instrument panel, above a row of switches, and has the function of displaying the vehicle's speed, mileage, battery SOC status, charging status, relevant fault information and fault code.

Note:

See the following chapters for the display instructions of the PAD.

PAD DISPLAY INSTRUCTIONS

**Main interface (home page)****1. Low beam lamp**

When the low beam lamp is turned on, the icons and are illuminated;

2. High beam lamp

When the high beam lamp is turned on, the icons and are illuminated; READY light

When the vehicle is in a drivable state, the READY light is lit.

**Gear display**

1. When gear D has no signal, its display is the same as that of other gears.

2. When the gear D signal is valid, it will be highlighted and amplified; When N gear and R gear are valid, the effect shall refer to D gear.

Left and right steering indication

1. When the left turn signal is turned on, the icon flashes.

2. When the right turn signal lamp is turned on, the icon flashes.

Reverse image display

When shifting to reverse gear, the screen main interface system will automatically switch to the probe at the rear of the vehicle to display the scene behind the vehicle.

**Left instrument panel display****1. 4WD display**

After the vehicle is powered on, the icon will illuminate, indicating that the vehicle is in 4WD status.

2. Parking brake display





When the parking brake pedal is pressed, the icon is displayed.


3. Vehicle speed display


According to the collected data, the vehicle speed (value) is displayed in real time, and the pointer indicates in real time. The maximum range of the instrument is 80mph .




Right instrument panel display

1. Display  when the motor is overheated;
2. Display  in case of system fault.
3. Display  when EPS has fault.
4. Display  when the power battery is under voltage.
5. According to the collected data, the SOC (value) is displayed in real time, and the pointer indicates in real time;
6. Power and charging display

 When the battery symbol is red, it means that the power is less than 20%;

 When the battery symbol is yellow, it means that the battery power is less than 40%;

 When the battery symbol is green, it means that the battery power is not less than 40%. When the three colors of red, yellow and green change in cycle, it means that the battery is charging.



Middle position display

12 hour system display, real-time display of the current time.



Information interface

Bottom position display

1. Remaining mileage display

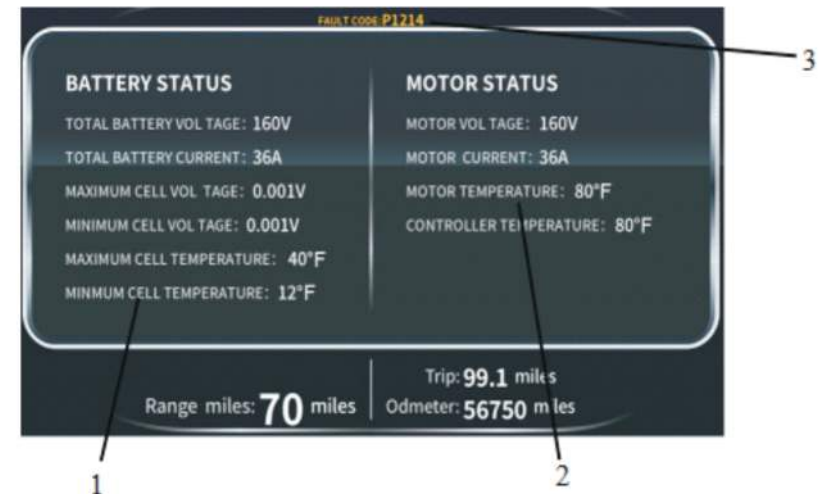
Display the remaining mileage of the vehicle in real time.

2. Display of subtotal mileage

Real time display of subtotal mileage.

3. Total mileage display

Real time display of total mileage.

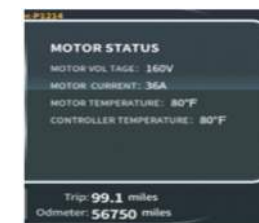


1. Battery status



Real time display of total battery voltage;
Real time display of total battery current;
Real time display of the maximum cell voltage;
Real time display of the minimum cell voltage;
Real time display of the maximum cell temperature(°F);
Real time display of the minimum cell temperature(°F);

2. Motor status

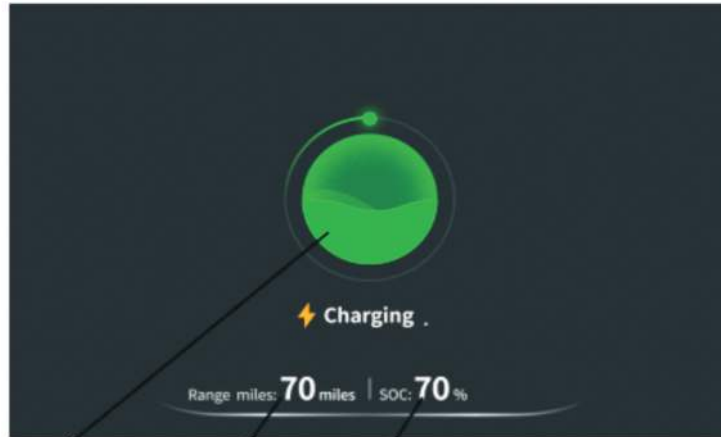


Real time display of motor bus voltage;
Real time display of motor bus current;
Real time display of motor temperature(°F);
Real time display of controller temperature(°F);

3. Fault code



Real time display of fault code;



4.Charging interface

(1)State of charge



Plug in the charging gun and it is charging, and the screen will automatically switch to the charging interface to display the charging status;

(2)Remaining mileage



Display the remaining mileage of the vehicle.

(3) SOC



Displays the vehicle SOC status

VEHICLE RUNNING-IN

In order to give full play to the vehicle performance in the future, extend the service life of the electric utility vehicle, and enhance the reliability and cost reduction of the vehicle.

During initial use, the vehicle operation shall follow the following instructions:

1. Within the first 500km, do not step on the accelerator pedal violently to start but run at an appropriate speed;
2. Within the first 300km, avoid emergency braking and step on the brake to the end (except in case of emergency);
3. Do not run at a fixed speed for a long time during driving. Change the speed appropriately to fully run in the moving parts.
4. The power battery cannot be deeply discharged. After the battery is discharged, please charge it in time.

Attention:

Please ensure that the parking brake is released in place before driving to avoid damaging the brake pad. The front and rear axle reducer gear oil must be filled and replaced according to the requirements of this manual;

When replacing the fuse, be sure to check whether the rated current of the new fuse is correct. It is forbidden to step on the accelerator pedal violently to avoid shortening the service life of the motor and controller.

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CHECK BEFORE DRIVING

Checklist

It is very important to check the condition of the electric utility vehicle before driving every time.

The pre driving checklist will help you reduce the probability of injury or trouble caused by mechanical or electrical problems. Ensure that the vehicle is in good working condition before driving.

Warning!

- It may be dangerous if your electric utility vehicle is not inspected and maintained.
- Failure to follow the pre driving inspection procedure may cause the electric utility vehicle to lose control, resulting in accident or damage to the vehicle.
- Be sure to check and confirm before driving.

Warning!

- It is dangerous to carry more than one passenger on this electric utility vehicle;
- When carrying more than one passenger, the vehicle may lose control and cause severe injury or passenger death.
- This electric utility vehicle is specially designed for one operator and one passenger. Carrying more than one passenger is strictly forbidden.

Check item	Inspection focus
Steering wheel	<ul style="list-style-type: none"> ● Smooth rotation ● No stagnation or looseness
Tire	<ul style="list-style-type: none"> ● Proper tire pressure ● Proper tread depth ● The rubber has no cracks
Braking	<ul style="list-style-type: none"> ● Correct liquid level ● No leakage of hydraulic pipeline. ● No abnormal wear of brake pads. ● The brake pedal can return to normal position after stepped down.
Accelerator pedal	<ul style="list-style-type: none"> ● Accelerator pedal can return to normal position after stepped down.
Induction key One-key start switch	<ul style="list-style-type: none"> ● Can start the utility vehicle normally.
Shifter	<ul style="list-style-type: none"> ● Flexible gear switch
Lighting	<ul style="list-style-type: none"> ● Headlamps, turn signals and brake lights can work normally
PAD	<ul style="list-style-type: none"> ● Display normally after starting the vehicle
Power	<ul style="list-style-type: none"> ● After starting the vehicle, sufficient SOC power is displayed on the central control panel.
Ordinary situation	<ul style="list-style-type: none"> ● Tighten all bolts and nuts

Warning!

- Driving an electric utility vehicle on a paved road can be dangerous.
- Operation on paved ground, including parking lots, sidewalks, driveways and streets, may lead to loss of control and severe personal injury or death.

The tire of this electric utility vehicle is designed for off-road use only, and the paved road will seriously affect the handling and control.

- Avoid driving an electric utility vehicle on the road.

If you have to cross the paved road, please drive slowly and do not turn or brake suddenly.

Warning!

- It may be dangerous to operate an electric utility vehicle in an irresponsible manner, including jumping or other stunts.
- Jumping or other stunts may cause the electric utility vehicle to lose control, resulting in severe injury or death.
- Don't try special effects, such as jumping.

Warning!

- Driving an electric utility vehicle in the mountains can be dangerous.
- When driving an electric utility vehicle on a mountain, vehicle overturns may happen when traversing, driving up the mountain or driving down the mountain. Any accident on the mountain can result in severe injury or death.
- Do not drive an electric utility vehicle on steep mountains.

Warning!

- It is dangerous to drive this electric utility vehicle on any public road or highway.
- If you drive on a public road or highway, you may collide with another vehicle, resulting in severe injury or death.
- Do not drive on highways or expressways.

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HELMETS, EYE PROTECTIVE GEAR AND PROTECTIVE CLOTHING

When driving an electric utility vehicle, you must wear a helmet, good eye protective gear and protective clothing correctly.

A motorcycle helmet with safety certification must be worn. The helmet helps prevent serious head injury in the event of an accident. Helmet is the most important safety equipment that you must wear. Consult your motorcycle dealer for the appropriate helmet size and model.

Always wear eye protective gear, such as a face shield or goggles, when driving an electric utility vehicle.

When driving an electric utility vehicle, any of the following may hit the eyes: dust, sticks, rocks, debris, bugs, etc. Therefore, it is necessary to properly wear eye protective gear while driving.

Wear protective clothing: long-sleeved shirt, gloves, trousers, ankle boots.

When driving an electric utility vehicle, the driver's body is exposed.

Wearing protective clothing can help protect the operator from injury.

Warning!

● It is dangerous to drive an electric utility vehicle without wearing a helmet, eye protective gear and protective clothing correctly.

● Driving an electric utility vehicle without a helmet will increase the probability of severe head injury or death in an accident.

Driving an electric utility vehicle without eye protective gear devices (such as face shield or goggles) may cause severe injury in the event of an accident. Driving an electric utility vehicle without protective clothing (ankle boots, trousers, gloves, long sleeved shirt) may cause severe injury to the driver.

● When driving an electric utility vehicle, you must wear a helmet, goggles, long sleeved shirt, ankle boots and gloves.

Seat belt

Warning!

- Driving or riding an electric utility vehicle without wearing a seat belt can be dangerous.
- It is dangerous for the driver and passenger to drive or ride an electric utility vehicle without a seat belt, which increases the probability of injury or death in the event of an accident.
- It is prohibited to drive or ride an electric utility vehicle without wearing a seat belt.



Fasten the seat belt

Drivers and passengers are prohibited from starting up the electric utility vehicle without wearing seat belts.

The driver and passenger shall sit upright, lean back to the seat, hold the tongue of the safety belt, and slowly pull out the safety belt (as shown in Figure 1).

Hold the tongue, insert the tongue into the safety belt buckle (as shown in Figure 2), hear the "click" sound, and fasten the safety belt.

Attention:

1. Do not put the shoulder belt part through the armpit or other positions.
2. Please move the belt part down near the hips as far as possible, and be sure to be lower than the abdomen.
3. Do not twist the seat belt when wearing it. Make sure that all parts fit smoothly on the body.

Unfasten seat belt

Hold the tongue and press the red button on the buckle at the same time to unlock the safety belt.

Attention:

As the seat belt retracts automatically, hold the tongue when the seat belt retracts so that the seat belt can retract slowly.



DRIVING AN ELECTRIC UTILITY VEHICLE



Open the vehicle door

The interior handle is installed in the vehicle, and the vehicle door can be opened by pulling the handle.



Start the motor

1. Check and confirm that the vehicle shift switch (1) is in the neutral gear (middle of the ("N" gear)) and the parking brake pedal (2) is in the parking state;

2. Take the driver's seat, place the induction key card (3) at the induction coil position (4) to sense and hear the "tick";

3. Step on the brake pedal (5), press the one-key start switch (7), and the vehicle will be powered on.

Note:

When powering off, it is also necessary to step on the brake pedal and press one-key start switch.
4. Wait for the "READY" indicator on the central control panel to light up.



7



Start driving

1. After the vehicle is started, press the upper end of the shift switch (1) to enter the forward gear "D", and press the parking brake pedal to release the parking brake;

2. Press the accelerator pedal (6) until the vehicle moves.

3. Drive the vehicle slowly until you are fully familiar with its handling characteristics.

Warning!

- It is dangerous to drive the electric utility vehicle at excessive speed ;
- Over-speed driving will increase the probability of the vehicle losing control, which may cause serious injury or death;
- Always drive at a speed appropriate to the terrain, visibility, operating conditions, driver skill and driver experience, and be sure to understand the terrain before driving.

Driving up the mountain

1. Before attempting a climb, stop and assess the mountain. Make sure the mountain is not too steep and the terrain is not loose and there are no obstacles.

2. During the climbing process, approach the mountain top at a stable speed.

3. After the front wheel has crossed the mountain top, you can release the accelerator pedal properly and slow down the speed to prevent the whole vehicle from flying up and landing heavily, causing damage to the driver and the vehicle.

Maximum safe climbing slope: 11.3°

If it is determined that the electric utility vehicle cannot reach the top of the mountain:

1. Do not try to turn around and travel down the mountain during operation, which may cause the electric utility vehicle to roll down the mountain.

2. Step on the brake to control the speed, and slowly reverse the electric utility vehicle down the hill.

Or:

1. Step on the brake to prevent the electric utility vehicle from rolling backwards.

2. If you feel it is impossible to park the electric utility vehicle safely on the mountain, please turn on the handbrake switch while stepping on the brake.

3. Release the brake pedal and carefully get off the electric utility vehicle when the vehicle is parked reliably on the slope.

Check the surrounding environment, and leave the ramp site quickly when safety is ensured, and seek help.

Driving down the mountain

When driving an electric utility vehicle down the mountain, follow the instructions below.

1. Before attempting to drive down the mountain, stop and assess your surroundings to make sure the mountain is not too steep, the terrain is not loose or slippery, and there are no obstructions.

2. Control the speed of driving downhill and don't go downhill quickly, otherwise stepping on the brake at too fast speed will easily cause the vehicle to lose control and overturn.

Warning!

- Driving an electric utility vehicle through steep or loose hillsides is dangerous.
- Crossing steep or loose hillsides may cause the electric utility vehicle to lose control or overturn, causing damage to personnel and vehicles ;
- Do not drive vehicles across steep or loose slopes, and do not drive vehicles to climb slopes exceeding 11.3°
- Before driving up a steep slope, you must practise and train on a small slope.

Slip or slide

In some cases, you may slip or slide even if you do not step on the brake pedal. Regain control by following the driving techniques listed below.

When the front wheels start to slip or slide:

To restore traction, release the accelerator pedal, do not step on the brake pedal.

When the rear wheels start to slip or slide:

In order to restore traction, release the accelerator pedal and brake pedal until the control of the vehicle is realized, and turn to the direction of sideslip.

Warning!

- It is dangerous to brake hard on slippery road.
- Pressing the brake hard on the slippery road will cause the wheels to lock, and the vehicle will lose control, turn over or slide into objects, which may cause serious injury or death.
- Lightly step the brake on slippery road.

Warning!

●Slipping or sliding electric utility vehicle are dangerous ;

●Slipping or sliding may cause the electric utility vehicle to slide into some objects or suddenly turn over, which may cause severe injury or death ;

●Avoid slipping or sliding. Make sure the tires are under control when driving.

Warning!

●It is dangerous to use the handbrake switch when driving an electric utility vehicle.

●During operation, when the handbrake switch is turned on, the wheels may be locked and the electric utility vehicle will lose control. This may result in severe injury or death.

Only when the electric utility vehicle stops completely can the hand brake switch be used.

Warning!

●It is dangerous to drive an electric utility vehicle in waters where water speed is too fast or deep water ;

Deep water or fast flowing water may cause the all terrain vehicle to lose traction, cause the vehicle to lose control, and cause severe injury or death.

●Do not drive an electric utility vehicle in water more than 20 cm (8 inches) deep. Do not drive an electric utility vehicle in fast flowing water.

●The braking force may be weakened after water passing, so the braking performance should be checked in time. On the premise of safety, the brake can be dried out from friction by braking several times.

Driving cross waters

Driving over water is dangerous, especially when the vehicle moves too fast. Make sure that the water you are driving cross is shallow and the depth is no more than 20 cm (8 inches).

Before crossing any water area, you should check the terrain to ensure the safety of the water area. Do not try to enter if you don't know the terrain or water area. Please pay attention to protecting the environment and don't enter protected waters such as rivers.

If the electric utility vehicle is used in muddy, wet or sandy environment, the brakes need to be checked, cleaned and replaced frequently.

Regularly check the brake of the vehicle, and clean or replace it according to the maintenance requirements.

3. Brake check

After starting the vehicle, drive at a slow speed (walking speed), use the brakes on flat ground, and check the braking ability of electric utility vehicle.

Make sure the front and rear brakes work properly.

If the front, rear or both brakes fail, move the electric utility vehicle to a warm place to thaw. After thawing, re-check whether it can work normally. If it still can't work normally, please take the electric utility vehicle to the designated maintenance center for maintenance. Never try to drive an electric utility vehicle whose brakes don't work properly.

Preventive maintenance in cold weather is very important. When used in cold weather, snow, mud, water or ice may freeze the brake pedal and accelerator pedal mechanism of electric utility vehicle. You can brake several times to ensure that the brake disc and friction plate are kept dry. A protective cover can be used to cover the electric utility vehicle to prevent snow accumulation.

Warning!

●Driving an electric utility vehicle with wet or frozen brakes can be dangerous.

●Wet or frozen brakes will increase the braking distance of the vehicle, which may cause loss of control, severe injury or death.

●Check the brakes according to the procedures in this manual before each driving.

Caution!

●Before starting the electric utility vehicle in cold weather, make sure that the wheels can move freely.

Driving in cold weather

Check the following items before driving:

1. Brake pedal and accelerator pedal

In cold weather, it is necessary to conduct additional inspection on the electric utility vehicle before driving. Ice and snow may cause them to freeze. Check the brake pedal and accelerator pedal connecting mechanism to ensure that they work normally. If the mechanism is frozen, please move the electric utility vehicle to a warm area until they are thawed and can work normally.

2. Tire freezing

Check whether the tires of the vehicle are frozen on the ground. If they are frozen, inject warm water around the tires to thaw.

Loading guide

The weight of the driver, passengers and cargo shall not exceed the maximum load capacity of the electric utility vehicle.

The maximum load capacity of the electric utility vehicle shall be subject to the actual model (see the technical parameter sheet for details).

The maximum load capacity of the cargo bed is 200kg (44lbs).

Ensure that the loaded goods are well secured and reliable, and loose goods may become dangerous goods.

The weight of the goods shall be evenly distributed to a lower position to avoid adverse effects caused by the high center of gravity.

Ensure that carrying goods / accessories does not interfere with any control of the electric utility vehicle.

Do not load heavy or overweight goods.

Slow down when carrying goods. Goods will have an adverse impact on high-speed driving.

When loading goods, enough braking distance shall be maintained. The greater the weight of the electric utility vehicle is, the longer the braking distance will be.

Warning

- It is dangerous to drive any electric utility vehicle after modification or addition of accessories.
- Retrofitting an electric utility vehicle, including adding accessories, may have a negative impact on the operation of the electric utility vehicle, resulting in serious injury or death.
- Never refit an electric utility vehicle.
- Please follow the relevant instructions in the user manual/maintenance manual for maintenance, and only use genuine accessories.

After sales parts

When purchasing accessories, please purchase genuine accessories from official channels. Because we cannot guarantee the quality, safety and applicability of accessories in the market. Purchasing of improper parts may cause abnormal operation of the electric utility vehicle, resulting in vehicle damage and personal injury. If you have any questions, please contact your local dealer.

MAINTENANCE

Warning

Your electric utility vehicle can be maintained by an after-sales dealer or a designated repair shop.

Please carry out maintenance according to the maintenance procedures and schedule listed in this manual, which is very important to the safety of drivers and passengers and the service life of electric utility vehicle.

When it is used under harsh conditions, such as wet, muddy and dusty environment, it should be maintained more frequently.

- Failure to use original parts may damage the electric utility vehicle;
- The parts with poor quality will lead to the failure of the electric utility vehicle and reduce the service life of the electric utility vehicle;
- Do not use components that are incompatible with the original assembly.

Warning!

- If the electric utility vehicle is not maintained, it is dangerous;
- If the electric utility vehicle is not properly maintained, it may lead to accidents.
- Always carry out the maintenance according to the instructions listed in this manual.

Caution!

- Failure to use original parts may damage the electric utility vehicle;
- The parts with poor quality will lead to the failure of the electric utility vehicle and reduce the service life of the electric utility vehicle;
- Do not use components that are incompatible with the original assembly.

Maintenance Table

Item	First 5 hours of driving	Before each driving	Every 20 hours or 1 months of driving	Every 50 hours or 3 months of driving	Every 100 hours or 6 months of driving
Gearbox oil				R	
Brake	I		I		
Braking pipe	I		I		
Brake fluid	Check the brake fluid level before driving each time. If it is too low, check whether the brake pads are worn and whether the brake pipes are leaking. Change the brake fluid every 2 years.				
Tire		I			
Steering wheel	I		I		
Front shock absorber	I		I		
Rear shock absorber	I		I		
Chassis nuts and bolts	T	I	T		

Note: I = inspection and cleaning, adjustment; if replacement or lubrication is necessary, R = replace, T = tighten.



Maintenance of power battery

The power battery used in this model consists of 3 boxes of lithium battery packs connected in series.

1. Charging time: about 14 hours (110V)
2. Maintain the power battery (fully charged) at least once a month.



Charge

Charging method and precautions

1. Open the cover plate of the charging port, align the direction, and connect the plug of the power cord with the charging socket.
2. Connect the plug at the other end of the power cord to the 110V household power supply.
3. When the charging gun is working, the charging indicator on the PAD will light up. After the battery is fully charged, the charging gun will stop working and the charging indicator will go out.
4. After charging, unplug the plug connected to the 110V household power supply. Then unplug the plug connected with the charging socket on the car. Push the charging port cover back to the original position.

Safety Specification for charging battery pack by charging gun

1. The charging standard power supply voltage is 120V. The charging socket shall be installed by a professional electrician. If it is installed outdoors, please make sure that the charging line and charging gun are moisture-proof and waterproof to avoid power leakage.
2. Please use a dedicated line to charge the vehicle, that is, a charging dedicated line (similar to the dedicated line for household air conditioning) is led out from the standard household or unit power socket. It is recommended to use a copper core wire with a wire diameter of 4 mm² or more.
3. The three hole socket with rated current $\geq 16A$ shall be selected and reliably grounded. The power line of the charging socket must be installed with a corresponding type of circuit breaker (air switch) with leakage protection function to ensure charging safety. When charging the vehicle, please do not use other high-power electrical equipment on the same line.
4. The charging time of 100 km electric energy of vehicle power battery is about 14 hours (110V). The charging case completion time of the power battery changes due to the charging power, remaining power, vehicle service time, ambient temperature and other conditions. After the battery is fully charged, the vehicle will automatically stop charging, and the charging indicator of the power battery on the instrument will go out.
5. The charging location shall be a place with fire-fighting facilities and good ventilation. At the same time, smoking or storage of power supply is forbidden at the charging place. It is forbidden to charge at a place where inflammables are stacked.

6. Looseness of the charging plug, oxidation of the contact surface and other problems will cause the plug to become hot. If the plug is hot for too long, it will lead to short circuit or poor contact of the plug. If abnormal conditions are found at each connection point of the power line, it should be repaired or replaced in time to avoid poor contact and electric spark.

7. When charging, children are not allowed to play nearby.

8. It is forbidden to use this series of battery packs in series or in parallel with other models or types of battery packs. In any abnormal situation of the battery pack, the professional technician shall be notified in time for inspection. To avoid danger, it is forbidden to disassemble the lithium battery without authorization.

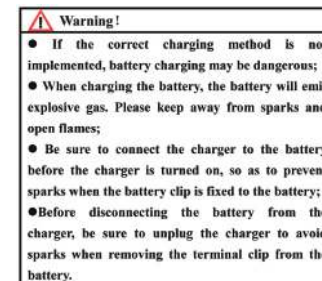
9. In case of any abnormal situation of the battery pack, the professional technician shall be notified in time for inspection. To avoid danger, it is forbidden to disassemble the lithium battery without authorization.

10. If there is smoke, smell or spark during charging, please immediately cut off the power supply and contact the local service station.



Storage battery installation and maintenance Installation

1. The storage battery is maintenance free and its specification is 12V-45AH.
2. The battery is located in the front engine compartment. The position of the battery can be seen after removing the front engine cover.
3. Connect the red wire of the harness to the positive (+) side of the battery, connect the black wire to the negative (-) side of the battery, and tighten the fixing bolts to ensure reliable connection.



Maintenance

1. Check whether the storage battery is fixed properly on the vehicle and whether the shell surface is bruised;
2. Whether the battery cable is reliably connected and whether there is ash layer at the exhaust hole;
3. Check the charging condition and quality status through the electric eye on the battery. Green means qualified, black means power loss, and white means the battery is damaged and needs to be replaced.



Recharge

1. If the vehicle is not used for a long time or the charging system has fault, when the load voltage of the storage battery is lower than 10V and the no-load voltage is lower than 12.4V, it must be recharged;
2. The red wire (clip) must be connected to the positive (+) side of the battery, and the black wire (clip) must be connected to the negative (-) side the battery.
3. The charging room shall be well ventilated and free of flames and inflammables;
4. Sufficient power standard: the electric eye (1) is green.



1



2

Gearbox oil

The electric utility vehicle is delivered from the factory with a proper amount of qualified gear oil. Please determine the oil replacement period according to the maintenance plan.

The gear oil level can only be checked by draining oil and replacing with the correct oil type and quantity.

1. Find and remove the oil drain bolts (1) and (2) of the gearbox at the front and rear of the vehicle;

2. Drain the gear oil in a suitable container, and then reinstall the drain bolt.

Note: Waste oil must be treated in a special waste oil recycling station to avoid environmental pollution.

3. The filling amount of gear oil

Front reducer: 600ml

Rear reducer: 500ml

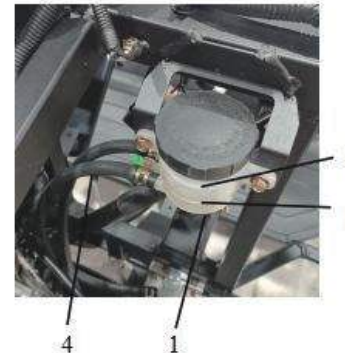
4. Gear oil specification: 85W-90.

Brake

The electric utility vehicle is equipped with front and rear hydraulic disc brakes

Warning!

- It is dangerous if you fail to check the brakes before each driving;
- Before each driving, please check the brakes according to the "pre-driving checklist" to ensure that the procedures specified in the maintenance plan are strictly followed.



4

1

Inspection of brake fluid

As shown in the figure, check the brake fluid level (1) of the brake oil can. The normal level should be between the upper and lower marking lines (2 and 3) of the oil can. If the level is lower than the lower marking line (3), check the brake hose (4) for leakage or cracks. If there is no leakage, please fill the qualified brake fluid to the proper position in time and check whether the brake pad is excessively worn. If the brake pads are worn, please replace them in time.

To add brake fluid, please remove the front cover.

Please use standard brake fluid (specification and model DOT3).



Minimum pattern depth 4mm



Tire

Check the tires before each driving / riding, including the following items:

1. Check for cracks or air leaks.
2. Check the tread depth. If the pattern depth is less than 4 mm (0.16 in.), replace the tire.
3. Check the tire pressure. Incorrect tire pressure will affect handling, handling comfort, steering, tire life and traction. Always check the tire pressure before driving.

Maximum cold tire pressure:

Front tire:

Range: 10~28 psi (69~193 kPa)

Suggesting: 18 psi (124 kPa)

Rear tire:

Range: 10~28 psi (69~193 kPa)

Suggesting: 20 psi (138 kPa)

Tire size:

Front tire: AT26×9_14

Rear tire: AT26×11_14

Warning!

- Driving an electric utility vehicle with worn tires is dangerous;
- Driving an electric utility vehicle with worn tires will reduce the traction, resulting in accidents;
- Do not use tires with tread depth less than 4mm to drive an electric utility vehicle.

Warning!

- It is dangerous to drive an electric utility vehicle with improper tire size or air pressure.
- Driving an electric utility vehicle with inappropriate tire size or air pressure may lead to loss of control and accidents.
- Do not drive an electric utility vehicle with improper tire size or pressure.

Tire replacement

Be sure to replace the tires of the model and size listed in this manual. When replacing tires, be sure to use the right tools. Using the wrong tool may damage the fixing nut and rim.

Tires should preferably be replaced by an approved service center. The service center has the correct equipment and expertise to replace the tire without damage.

The punctured / cut tire needs to be repaired in a professional repair shop or a designated service center. Replace the tire if it cannot be repaired.

Storage

If the electric utility vehicle is idle for a long time, it needs proper storage and maintenance.

1. Thoroughly clean the electric utility vehicle, and then coat plastic and painted parts with non abrasive wax car wax.

Note:

When cleaning, be careful not to directly wash the power battery, electrical devices, high and low voltage cables and their connectors with water.

2. Take out the storage battery and clean the battery case and terminal with soap and water. Store the battery in a cool and dark place. Recharge the battery at least once a month during storage.

3. Keep the tire pressure normal.

4. If possible, the electric utility vehicle can be parked in the shed or garage to prevent dust and water. If the electric utility vehicle must be stored outdoors, please cover the electric utility vehicle with a good waterproof cover.

Cleaning

1. Clean the dirt and dust on the electric utility vehicle with a water pipe under low water pressure.

2.2. Use sponge, soft rag or brush, and mild detergent or car

Resume use

1. Thoroughly clean the electric utility vehicle.

Note:

When cleaning, be careful not to directly wash the power battery, electrical devices, high and low voltage cables and their connectors with water.

2. Replace the gearbox oil according to the requirements of this manual.

3. Charge the power battery according to the requirements of this manual.

4. Recharge the storage battery and install it according to the requirements of this manual.

5. Check the user's manual and follow the pre drive inspection procedure.

VEHICLE IDENTIFICATION NUMBER (VIN) AND VEHICLE NAMEPLATE



1



2



The vehicle identification number (VIN) is needed when you need parts, service center help or register your electric utility vehicle.

There are two 17-digit vehicle identification number on the vehicle. One is on the left longitudinal beam of frame, and the specific location is on the longitudinal beam at the left front lower arm. The other is on the nameplate (1) of the whole vehicle.

The vehicle nameplate (1) is located on the frame rail in front of the left rear shock absorber mounting seat.

TECHNICAL PARAMETER

Item			10K
Size	Length	mm	2860
	Width	mm	1810
	Height	mm	1850
	Wheelbase	mm	1900
	Front track	mm	1470
	Rear track	mm	1400
	Minimum ground clearance	mm	≥225
Total mass	Total weight	kg	780
	Front weight	kg	380
	Rear weight	kg	400
Maximum total mass		kg	1160
Front wheel toe-in		mm	5 ± 3 (Left and right difference ≤ 3)
Maximum vehicle speed		mph	35
Maximum climbing gradient		%	30
Driving type			2WD/4WD
Tire specification			AT26×9_14 / AT26×11_14
Brake type	Front		Disc
	Rear		Disc
Suspension type	Front		Double wishbone independent suspension
	Rear		Double wishbone independent suspension
Steering Type			EPS