



Cargo Truck Owners Manual

Preface

Thank you for choosing PET Cargo Truck manufactured by Wooking Electric Vehicles Co., Ltd.

Please read this manual carefully before using the product to enjoy optimized performance, extended service life and a safer and more comfortable driving experience. Take extra caution when using the electric Cargo Truck and read the rest of the manual carefully to gain a good understanding of the product's performance. Do not lend the Cargo Truck to any person who has not read the manual and doesn't have knowledge of how to operate the vehicle.

Important Notes

Please read all content contained in this manual and strictly follow all regulations and instructions. In this manual, words such as "WARNING", "NOTICE", "CAUTION" are used to address areas that require your full attention and understanding prior to operating the vehicle.

WARNING – suggests the act that may cause personal safety risks and may lead to the occurrence of accident if left untreated.

CAUTION – suggests items that require more attention to the vehicle and charging, to avoid damage and risk of personal safety.

NOTICE– special explanation defined to facilitate maintenance or important note.

Notes:

The electric Cargo Truck is subject to model development with continuous research and development of new products, so some functions of the truck may differ from descriptions in this manual. For details, please contact the supplier or manufacturer.

★★The blue lines on the controller are set for testing electrical system performance or warranty services of repair, replacement and refund. Please keep it intact. For you and others' safety, please do not cut it off or damage it. The manufacturer assumes no liability for any damage caused due to improper handling, operations or care caused by the customer of the Cargo Truck.

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II Important Notes:

The electric Cargo Truck should only be used after you carefully read the Manual. Do not lend the Cargo Truck to any person who has not read the manual and doesn't have knowledge of how to operate the vehicle.

III. Points for Attention

1. Please abide by traffic rules consciously and drive in the slow lane.
2. While turning, the riding speed must be slowed down.
3. The tire shall be properly inflated. If the pressure is too low, the riding resistance may increase, and the travelling speed would slow down; if the pressure is too high, the ride will be bumpy and may result in flat tires.
4. To avoid accidents, do not hang anything on the handle bars while the vehicle is running.
5. The electric Cargo Truck with integrated wheels has a maximum load capacity of 500 lbs. Overload will result in damage to the electrical components.
6. Do not oil or grease brake parts, to avoid braking failure.
7. Do not drive down a slope too fast. Never use the front wheel brake separately and suddenly to avoid shifting weight forward and causing a potential accident.
8. Disassembling the vehicle body by anyone other than electrical/mechanical technician may result in potential safety hazards.
9. To avoid an accident, make sure to check that parts such as the handle bar, saddles, axles, and wheels are secured and reliable before riding.
10. Do not drive on uneven, muddy, gravel roads to prevent flat tires, deformed hub and poor contact of electrical parts.
11. When you get off and push the tricycle forward, switch off the power switch to avoid unintentional rotation of governor handle while pushing, which may cause accidentally starting of vehicle, leading to an unpredictable accident.

Warning: This product is only suitable for adults and should be operated with caution.

Note: When riding in rain, snow and fog, you should increase the braking distance.

IV. Pictures of Cargo Truck



Technical Specifications

Motor: 48V 650W Brushless DC Motor

Batteries: 4 x 12V/ 20Ah No Maintenance, Recyclable, Sealed Lead Acid

Charger Input Voltage: 110V to 240v

Product Size: 108 L x 41W x 51H inches

(275 L x 105 W x 130 H cm)

Maximum Speed: 15 mph / 25 km/h

Distance Per Charge: 20 miles / 35 km

Rated Load: 660 lbs. / 300 kg

4.1 Tricycle frame: designed with high strength to assist providing for large weight or high speed.

4.2 Battery: fully enclosed lead-acid battery

4.3 Motor: made of high-performance NdFeB permanent magnetic materials, featuring high efficiency and long service life.

4.4 Controller: operation hub of the electric system, which can reliably guarantee the normal functioning of the electric system.

4.5 Display: battery capacity and under-pressure indication; display of speed, accumulated riding mileage and illuminating light are available for certain models.

4.6 Charger: 110V 50Hz AC power supply

V. Riding Ways and Operation Methods

To experience the performance of the electric Cargo Truck while ensuring safety during travelling, it is recommended to have a trial ride in a flat open space prior to operating the vehicle on busy roads and streets. To operate follow the below instructions:

- (1) Energize the power: turn the power switch to “ON”.

- (2) Start driving: rotate the speed-regulating handle slowly inward (clockwise) at a constant speed with the right hand to start driving.

- (3) Speed control: during riding, rotate the speed-regulating handle with the right hand to adjust the speed.

- (4) Brake: no matter braking with left/right hand or foot, the controller will disengage the motor.

VI. Proper use and maintenance

1. Proper use of spare parts

1). Main key: (see Fig. below)

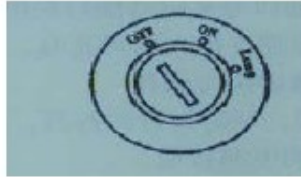
There are two sets of keys with the Cargo Truck. Please keep one as a spare key.

Power switch lockup: At “OFF” position, all the circuits are open.

At “ON” position, all circuits are connected, and it is ready to start motor at any time.

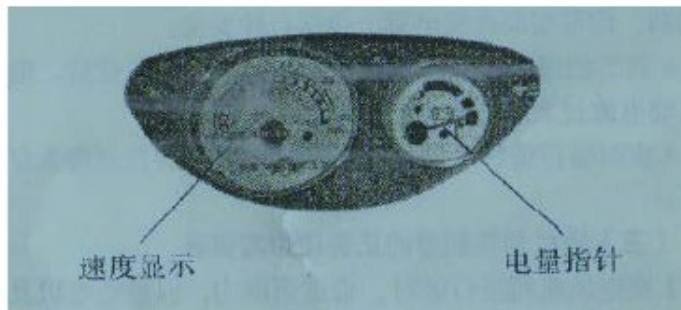
At the “LAMP” position, the headlight will be turned on.

Caution: Check if the power plug of the battery box is contacted correctly in place before use.



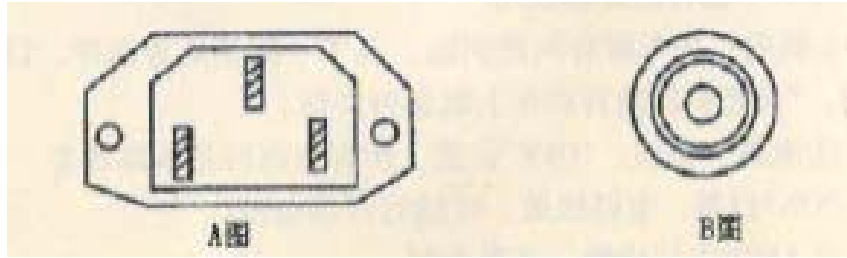
2). Instrument (see Fig. below)

Battery indicator: indicating the current voltage of battery.



Right Hand-side	Speed indicator
Left Hand-side	Battery indicator

3). Charger socket (see Fig. below)



For charging, just insert the charger plug into the charging socket of the battery as shown in Fig. A and Fig. B.

Fig. A socket is commonly used as power socket and charger socket. You can charge electricity simply by unplugging the power plug and then plugging in the charger plug.

2. Proper Use and Maintenance of Whole Vehicle

- 1) Insert the key in the electric lock, turn clockwise to open the lock, at this time, the battery pointer on the instrument turns to H direction.
- 2) During riding, rotate the twist throttle handle backwards slowly with the right hand after starting to accelerate gradually for motor-driven riding; release the handle to reduce the travelling speed until the motor is shut down.
- 3) This Cargo Truck has brake power failure protection function, so users can shut off the motor power during riding either by operating the left or right brake lever or using foot brake.
- 4) Set the twist throttle handle to zero position while braking, which can prevent damage to electrical parts.
- 5) When riding at night, please turn the electric lock switch to LAMP, and turn on the headlight and night light.

3. Proper Use and Maintenance of Motor and Controller

- 1) When riding against wind or upslope, please use assisted riding properly to avoid motor and battery overloading.
- 2) It is not recommended to use the electric Cargo Truck in the rain. If riding occurs, try to prevent water from getting near the center line of the rear wheel, to avoid shorts.

WARNING: Do not turn the twist throttle handle abruptly to ensure safe travelling and to protect the motor and battery.

4. Proper Use and Maintenance of Battery

The lead-acid battery used in the electric Cargo Truck has a service life greatly related with the end user's daily use and maintenance.

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- 1) The electric Cargo Truck uses sealed, lead-acid, no maintenance, recyclable batteries. DO NOT dismantle the sealed battery box, to add distilled water or electrolyte.
 - 2) Always store the Cargo Truck and batteries in a cool, dry place.
 - 3) Ensure batteries are fully charged before unplugging from charger.
 - 4) Lead-acid battery capacity is subject to temperature. If the ambient temperature is below 65F continuously, this will reduce range.
 - 5) Lead-acid battery is perishable. When used over time, the battery capacity will drop, and the continuous range distance mileage will be shorter as well.
 - 6) Battery shall not come in touch with flame, heat source and alkaline substances, or be exposed to sunlight.
 - 7) Only the special charger provided at the time of purchase with the Cargo Truck should be used to charge the battery.
 - 8) Charging immediately after travelling is not recommended in hot weather because the battery is still hot. Allow 10 minutes for the battery to cool before plugging it in to charge. In cold weather it is recommended to charge the vehicle indoors.
 - 9) Battery shall be charged soon after use, charging while using is recommended in principle; if battery is to be left unused for a long period of time, it should be stored after fully charging, and charge once a month to maintain potential.

NOTICE:

During riding, please charge immediately if the battery pointer points at L.

Every time after riding, either long or short distance, charging the battery can keep its full capacity, which helps prevent electrode polarization and prolongs the service life.

WARNING:

To avoid personal injury or battery damage, do not use hand or conductor to release the two electrodes of the battery box.

5. Proper Use and Maintenance of Charger

1) For charging, plug in the battery charging plug first and then AC 110V60HZ power plug. At this time, the indicator on the charger panel will be red, it suggests the charger is charging the battery; when the charger indicator turns green, it suggests the charger is under floating charge, and charging 1 to 2 more hours is needed. After completion of charging, plug off the AC power plug, and then the charger plug.

2) Charging shall be conducted in dry and vented place. Do not cover the charger; make sure your hands are dry when plugging in or out the power plug.

3) The charging field shall be far away from children and hazardous materials, inflammables and explosives.

4) If the charger is not used, cut off the AC power to prevent the long-time service of charger, which might impact its service life.

5) Close the electric lock while charging, to prevent damage to charger caused due to large current in case of sudden starting of the electric Cargo Truck .

6) Charging for 6-8 hours is recommended.

NOTICE:

The battery of the electric Cargo Truck must be charged by the smart charger enclosed with the vehicle.

CAUTION:

Plug in the battery box plug first and then power on the AC power before charging; after charging, plug off the AC power plug and then the charger plug. Prevent striking a light between the charger plug and the battery box charging outlet, otherwise, the charging plug might be burnt out.

6. Inspection and Maintenance

Inspection ● Adjustment ◆ Replacement ▲ Lubrication □

Inspection method	Daily	60 days	180 days
1. Turn the handle and check the steering part for looseness and abrasion.		● ◆ □	● ◆
2. Check the pedal part for wear, and flexible motion.		● ◆	● ◆
3. Check for proper tire inflation, and check the outer tire for wear.	●		
4. Check the transmission component		●	● ◆
5. Check the brake shoe for wear.			▲

6. Check the hub for deflection and deformation		●	●
7. Check the frame and front fork for deformation		●	●
8. Check the spokes for looseness and damage		●	●
9. Check the brake for good performance	●	●◆	●◆
10. Check the horn for sound.	●		
●11. Check the charger and power cord for wear and tear.	■		

Recommended lubrication oil: (1) hydraulic oil HL68;

Clean and lubricate the front axle, rear axle, middle axle, flywheel and front fork every half a year or every year according to the use condition. The transmission component in the electric hub is applied with special lubrication oil, no lubrication by the user is needed.

Electric parts such as electric hub, controller and charger should be sent to designated repair station for maintenance and repair. Any fault and damage caused by unauthorized disassembly is not considered under our warranty.

VII. Common Troubleshooting

NOTICE:

If abnormal operation of the motor, controller or charger occurs, please contact your supplier or special repair station.

WARNING:

If it occurs during riding that the motor speed is not controlled by the speed-regulating handle, shut down the electric lock at once and send the motor to special repair station for handling

No.	Fault	Cause	Troubleshooting
1	The handle looses	Head mounting bolts loose	Tighten the mounting bolts of heat with a wrench
2	e axles wings	(1) The mounting bolts at both sides of the middle axle loose	Remove the plastic covers of nuts on the left and right cranks, and unscrew the tightening bolts of the left and right cranks with wrench. Remove the left and right cranks, and tighten and adjust the left and right axle-bowl nuts on the middle axle properly, no over-tightening.
		(2) Steel balls on the inner ball frame of the middle axle bowl is broken.	Screw the middle axle bowl down, and change the steel balls.
3	The pedal is loose,	Screws connecting the pedal and crank loose	Tighten them with a special wrench.

	and moves in an irregular way	Pedal is damaged	Replace the pedal.
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No.	Fault	Cause	Troubleshooting
4	The crank looses and bends.	The nuts connecting the crank and middle axle loose	Screw up the tightening nuts.
		The crank is bent.	Remove the crank with a special socket, and calibrate it with a hammer; if calibration fails, change the crank.
5	Chains slip.	Chains loose.	Unscrew the mounting nuts of the rear wheel, screw the adjustment nuts and adjust the rear wheel to the right place, then tighten the mounting nuts.
6	The crank rotates	Chains are over-tightened.	Unscrew the mounting nuts of the rear wheel, screw the adjustment nuts and adjust the rear wheel to the right place, then tighten the mounting nuts.
		The flywheel is blocked	Remove the rear wheel, and take the flywheel down for cleaning.
		Flywheel is damaged.	Replace the flywheel
7	Front axle or rear axle looses	The mounting nuts loose.	Screw up the tightening nuts.
8	Wheel hops and swings.	Wheel axle looses	Screw up the tightening nuts.
9	The front and rear brakes fail to function	(1)Brake is damaged (worn out)	Replace the brake.
		(2)Brake wire looses	Use a vice to pull the brake wire backward and screw the nuts up with an open end wrench

		(3)Hub brake is damaged.	Change the hub brake.

No	Fault	Cause	Troubleshooting
10	The wheels rotate in a slow way.	(1) front wheel: the hub brake is worn out	Release to make it rotate smoothly
		(2)Rear wheel: over-tightened	Release to make it rotate smoothly
		(3)The hub is damaged.	Replace the hub
11	The saddle swings vertically and horizontally	Fixing nuts of saddle or the saddle pipe loose	Tighten the nuts
		The saddle riser is damaged	Replace the riser
12	Mud guard sways	The fixing screws loose or fallen off	Tighten the fixing nuts and screws
13	Open the electric lock, the rear instrument light is not turned on.	The harness joint looses	Connect the joints well.
		Contact point of the electric lock is poorly contacted	Replace the electric lock
14	Speed regulation fails or the maximum speed is rather low.	(1)Battery voltage is too low	Charge the battery full
		(2)Connectors of the speed-regulating handle is poorly contacted	Connect it again.

		(3) Twist-throttle handle is damaged	Replace the handle
		(4) Spring in the speed-regulating handle is stuck or fails.	Replace the spring.
		(5) Check the brake and the off switch to make sure that they are constantly open.	Repair or replace

No	Fault	Cause	Troubleshooting
15	The headlight is not on.	(1) Bulb is damaged	Replace the bulb.
		(2) The headlight connector is poorly contacted	Connect it again.
		(3) The headlight switch is damaged	Replace the headlight switch or electric lock
16	Electric hub does not move when you turn the twist throttle	(1) Motor connector is not properly connected	Check the connector, and connect it properly
		(2) Twist throttle handle or controller is damaged	Replace twist throttle handle or controller
		(3) The motor is damaged.	Replace the hub
17	Wheels rotate after the key is turned on.	(1) Twist throttle handle fails to reset	Release the twist throttle handle and adjust the position.
		(2) Twist throttle handle or controller is damaged	Replace twist throttle handle or controller
18	Turn on the key and rotate the	Input and output connectors of	Reconnect the connectors to secure them

	twist throttle handle, the rear wheel rotates under zero load, and fails to rotate with load.	controller is not firm.	
		Fuse tube in the battery box is poorly contacted	Stretch the spring in the battery box, so as to increase the pressure in the fuse tube
19	After rotating the twist throttle handle with power on, the motor sounds but the rear wheel does not move.	(1) Negative and positive poles of motor are reversed.	Connect the negative and positive poles of motor correctly.
		(2) The overrunning clutch in the motor is damaged	Replace the hub

No	Fault	Cause	Troubleshooting
20	Motor gives out a click sound and motor bearing are damaged	Brushless motor phase	Replace the hub
21	The indicator is not on when the charger is working	(1) Power cord is short-circuited	Replace power cord
		(2) Charger is damaged	Repair or replace the charger
		(3) The indicator light is welded with fault	Welding repair
22	After charging more than 8 hrs, the indicator is still off.	(1) The indicating part of the indicator is faulty.	Repair the indicating part
		(2) The battery is faulty	Check the battery, repair or replace it as necessary.
23	The charger is overheating	The charger is damaged.	Repair or replace the charger
24	The power is still on during braking	(1) The power-off switch is damaged	Replace the switch

		(2) The circuits of the power-off switch is poorly contacted	Handle the plug socket and the line, to ensure firm and reliable contact
		(3)The controller is damaged	Replace the controller
25	Horn fails	(1)The horn button is damaged	Change or repair the button
		(2)The horn is damaged	Replace the horn
		(3)Horn oscillation circuit is damaged.	Replace the element or circuit board

No.	Fault	Cause	Troubleshooting
26	Battery fails to charge	(1) The fuse in the battery box is damaged	Replace the fuse
		(2) The socket and the connecting wire in the battery box are poorly contacted	Re-weld it
		(3) The battery is damaged.	Change battery
		(4) Charger is faulty	Check the charger (see items 23 and 24)
27	Continuous mileage is not sufficient after one-time charging	(1) tire is under-pressure	Inflation
		(2) Charging capacity is low	Charge the battery full.
		(3) Charger is damaged	Make sure the charger circuit is well contacted.
		(4) Riding up a slope with heavy load against wind.	It is recommended to drive with the pedal assistance.
		(5) Battery is aged or damaged	Replace the battery.
28	Other failures	(1) In case that there is any fault that can not be treated or identified according to the above instructions;	In case of the above circumstances, please contact the supplier or repair station. Do not disassembly the above-listed parts at will, otherwise, we will not assume any warranty.
		(2) Electric hub, control, charger and battery interior are damaged	