



Owners Manual

XILI DAISY CO LTD

DAISY

Luxury Enclosed Mobility Scooter [LEMS]

INTRODUCTION

Please read this manual carefully before using the mobility scooter and use the mobility scooter in accordance with the manual.

We reserve the right to interpret any discrepancy between this manual and the actual **Daisy**.

Important notes

Thank you for purchasing this four-wheel battery powered enclosed mobility scooter. You should be familiar with the contents of this manual before driving.

Your personal safety depends not only on your alertness and familiarity with various operating techniques, but also on your familiarity with the mechanical properties of the electric four-wheeler mobility scooter.

This manual is for the **DAISY** four-wheel electric enclosed mobility scooter. Correct operation method and simple maintenance adjustment method, essentials, etc. to give a detailed description.

Wishing you pleasant driving, thank you again for choosing **DAISY** mobility scooter.

The design of this mobility scooter is limited to one driver and two passengers. Never exceed the load weight specified in this manual.

This manual should be regarded as a permanent part of the **DAISY**, that is, attached to the **Daisy**, can be read by the new **Daisy** driver at any time, even if the transfer of the **Daisy**, the manual should also be transferred to the new owner.

The electric parts of the **DAISY** are strictly prohibited from entry of water (especially the controller). Users must pay attention when cleaning the **Daisy**.

When **Daisy** starts to slowly accelerate, when the meter power display shows a voltage of less than 57V the battery needs to be charged, otherwise battery damage will occur, and severely shorten its life or may not be able to run the **Daisy**. Never allow the voltage to go below 55V.

The charging socket on **Daisy** should never be touched by hand, as the battery 60V will cause injury to the human body.

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PART 1 Daisy characteristics and safe driving rules

§1-1 Daisy character :

DAISY is small in size, therefore can flexibly travel through narrow footpath spaces and is very convenient for parking.

Equipped with 60V permanent magnet DC brushless motor, power 1500W, low running noise, long service life, and simple daily maintenance.

Transmission for electronic infinitely variable speed, driving operation fast, simple.

Daisy models from 2022 onward have a two-speed differential allowing the low speed to be 1/3 of the normal high speed.

Daisy models from late 2023 onward have a soft start to the electronic control of the motor.

Daisy models from late 2023 onward have three point driver's seat belt, a foot brake, and regenerative braking, as well as the standard hand brakes.

§1-2 Safe driving rules :

1. **Daisy** is a mobility scooter, or a LEMS [Luxury Enclosed Mobility Scooter] and so a driver does not need to have a driver's license. Drivers must have reasonable vision and ability to control the LEMS in all circumstances.
2. **Daisy** maybe required to be registered in some states, please check.
3. **Daisy** maybe driven as a mobility scooter or bicycle and must follow the rules of the road for pedestrians, mobility scooters and cyclists.
4. **Daisy** maybe driven on suitable footpaths, but not in high pedestrian areas unless the footpath allows safe driving. The maximum speed on a footpath with pedestrians is 10 kph.
5. **Daisy** maybe driven on cycle ways, and bike paths on road sides, must give way to motor Daisys and merge in the same way as a bicycle.
6. Before driving **Daisy**, you must do a good check on the brakes, tire pressure and other inspection work.
7. Adjust the seat to the right position before driving.

8. Adjust the angle of the rearview mirrors before driving so that you can see clearly behind the **Daisy**.
9. Mobile phones use or one-handed driving is strictly prohibited.
10. When driving, do not get too close to pedestrians or other obstacles. Strictly observe traffic regulations.
11. Speeding is prone to accidents. Please observe the speed regulations and slow down when turning.
12. Drive carefully at pedestrian crossings, road junctions and exits. Fatigue driving is strictly prohibited. Overloading driving is strictly prohibited.
13. Avoid driving in blinding, shining / glaring and unguarded conditions at evening and night times.
14. Ronica Trade Pty Ltd or Mobility Scooters for Hire Sale Service or any agent or authorised person will not be liable for any accident or traffic infringement caused by any driver of a **Daisy** LEMS, and shall be indemnified from any claims of any kind.

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PART 2 Daisy presentation

§2-1 Daisy front :



§2-1 Daisy rear :



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§2-3 Daisy nameplate and VIN number :

The product nameplate is riveted to the plastic of the rear seat bottom plate on the right side of the body. It is also stamped into the sub-frame at the right-hand side of the front seat.

The VIN code consists of 17 bits:

The VIN code must not to be tampered with. It is the **Daisy's** identification mark. In addition to the VIN mark on the product nameplate, there is another VIN on the body mark, The VIN code is printed in the middle of the door frame tube on the right side of the body.

§2-4 Speedometer:

1. Voltmeter: Display the battery voltage。

2. Speed: In kilometers per hour (kph)。

3. The left and right indicator flashes。

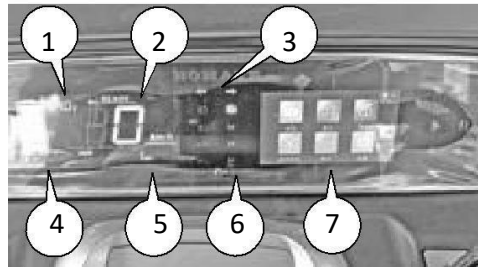
when the turn signal is switched on。

4. Battery meter: Displays battery charge, graphic and numerically。

5. Odometer: Displays the current distance – tripmeter – and total travelled (km)。

6. Gear indicator light: Turn knob to right and **D** Forward Drive indicator light will be on. Turn to left and **R** Reverse indicator light will be on。

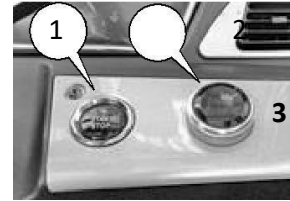
7. While reversing the reversing camera will display the image to the rear with guidelines。



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§2-5 Start switch:


1. Turn on/off the power to **Daisy** with one of the two keys.
2. Turn the drive (D/R) switch right to **Drive**, left to **Reverse**.
3. To right of D/R switch is Air Conditioner switch if A/C fitted.




Note: if equipped with a remote control, it is preferred to use the remote control to start and turn off the power supply of the **Daisy**.

§2-6 Left switch assembly:

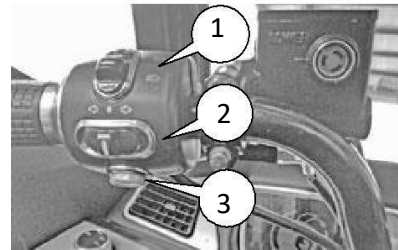
1. High / Low beam light switch.

Move switch down, that is low beam of headlight 

Move switch up, that is high beam of headlight 

2. (a) Turn signal switch: When the switch is in the middle position, the front and rear turn signals are all in the closed/off state

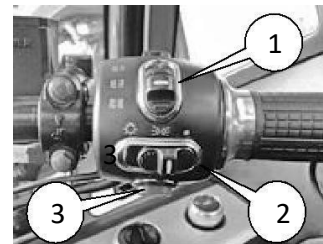
(b) When the switch is in "←", the front and rear left turn signal turns on and flashes
When the switch is in "→", the front and rear right turn signal is on and flashing.
3. Horn switch: Press the horn switch button to turn the horn on.
Release the horn switch button to turn the horn off.



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§2-7 Right switch assembly :

1. Low, medium and high-speed switch, 10/20/30 kph.
NOTE: 2022 and onwards models have two speed differential, in low gear this is 1/3 of high-speed gear position.
The lever for the two speed gears is at the left side of the driver's seat.
2. Light switch: move the switch to the right position, that is off;
Move the switch to middle, park lights; to far left, headlights on.
3. Wiper water switch. Press to operate. Fill with funnel through pipe below windscreen.

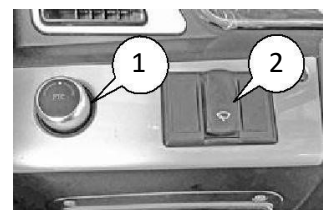


§2-8 Function switches :

1. A/C switch: This switch has been moved in 2022 and later models to be on the RHS of the dash as in Picture §2-5 on previous page.

First turn the fan knob to the right and turn it to 1, 2 or 3.

Press the button in the middle, then rotate the A/C switch to the corresponding position to display the instrument.
A/C indicator is bright, then the air conditioning is working.



2. Three switch in later models.
To the right, is the Fog Light switch.
In the middle, is the Wiper switch.
To the Left is the heater switch.
PTC (Personal temperature control) will light up on dash

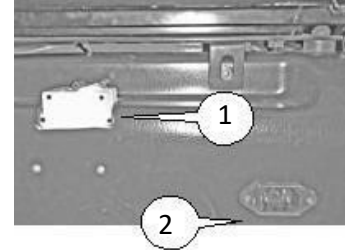
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§2-9 Power / overload switches :

1. Power switches: Located ON the left side of the driver's seat.

When the seat side switch is in the ON position, the **Daisy** is in the energized state. Use key to turn on.

The outer switch is for an additional battery pack stored below the front seat, if fitted. Only one switch can be turned on at a time.



In an overload situation the switch will turn off.

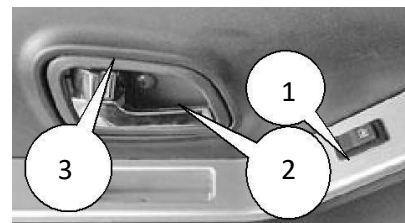
After waiting for 5 minutes to cool, turn switch back on. If overload happens again, contact your service agent or Mobility Scooters for Hire Sale Service 03 7036 4440.

2. Charging socket internal: **Daisy** is equipped with two charging sockets. One is located on the left side of the front seat for the under front seat batteries if fitted, and the main socket is located inside the lock cover in the middle of the rear of **Daisy**.

Daisy can have two sets of batteries installed, use the charger to charge each battery, one at a time as required. When charging, switch the position of the two power/overload switches according to the battery required to charge.

§2-10 Doors, Windows and glass lifters :

1. Use switch to lower and raise the electric windows.
2. Door handle.
3. Door lock, internal manual. Required for right door.



Note: Right door; when locked, do not close the door to prevent damage to the parts.

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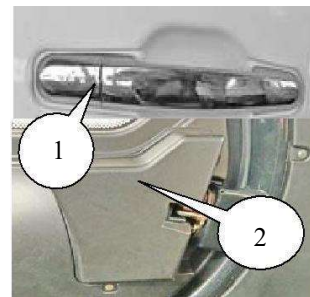
§2-11 Front seat and rear seat :

1. Front seat: Pull up the lever on the slide track to move the seat back and forth and adjust to the appropriate position. The seat should be moved front and back until the seat is locked securely.
Lift the lever at left side of seat to adjust tilt of seat back.
2. Rear seat: The rear seat is fixed and can be tilted to access the battery, being placed under the cover plate.
There is a single two-point seat belt to secure items, animals and passengers as required.



§2-12 Door lock and open :

1. Door lock handle: use the key to turn the lock core, then pull the handle on the door, you can open the door;
Turn the lock core to lock the door;
The center lock will work simultaneously, if fitted.
Or use a remote key to open and close the door lock.



2. Internal lock body: the internal lock body is installed on the inner plate and frame of the door. By opening the plastic lock cover, the lock body and the state of the tie rod can be removed and adjusted.

§2-13 Door maintenance and waterproofing :

1. Door access cover plate: the cover plate is installed and fixed on the door interior plate with six screws, which is used for maintenance and adjustment of glass lifting position and removal of door glass.
The door is also attached to place sundry box cover, also need to be removed together.
2. The interior is pasted with waterproof plastic paper to prevent water leakage between the door glass and the glass guide groove from entering the interior of the car body, so that it can be discharged from the leakage hole under the door to the exterior of the car body.



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PART 3 Operation guide

§3-1 Check before driving :

Every day before the start of driving, make a routine inspection of the whole **Daisy**, to ensure that the battery four-wheel sightseeing **Daisy** performance is good and achieve a safe driving effect.

Electric quantity: turn on the one-key start switch and watch the position indicated by the electric meter. When the voltage is less than three bars while driving or less than 61V at rest, it should be charged immediately.

Tyres: front tyre pressure: 220KPa rear tyre pressure: 250kpa

1. The tyre pressure can only be checked when the tyre is cool. It should be checked and adjusted regularly.
2. Frequently check whether there is a puncture wound on the tyre, and repair immediately if there is a leak.
3. When the tread is worn to the tread wear limit, a new tyre should be replaced.

Throttle system: when the power switch is **not** turned on, the throttle handle will be twisted, and there will be no loose sticking phenomenon.

Brake system: hold the brake handle tightly, then release should be free to return to released position, no sticking.

Other, such as seat position, mirror angle, door and door lock, whether the parts are loose, whether the horn and lamps are normal, should be checked every day before driving the **Daisy**.

§3-2 Driving operation :

1. Turn on the power switch, and the instrument display shall be normal without alarm display.
2. Put the gear switch into forward or backward gear as needed and **slowly** and **gently** turn the throttle handle (not fast) to the speed you want.

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3. To reduce the speed, close the throttle handle and use the front (right) and rear (left) brake handles.

§3-3 Braking operation :

1. It is very important to slow the speed by first turning off the throttle handle and using the front and rear brake handle at the same time. Anticipate slowing to reduce brake wear and avoid accidents.
2. Use extreme caution when driving on wet or soft surfaces or in rainy conditions, braking, acceleration, and steering.
3. When driving at medium-high speed on slippery roads and curves, the front and rear brakes should be used to slow down in advance to avoid accidents.

§3-4 Stop operation :

1. When parking, **Daisy** should be parked on the flat and hard ground, otherwise there may be injuries or the result of **Daisy** moving or tipping.
2. When parking, turn the start switch to the off position, remove the key and turn on the handbrakes.
3. Lock the door when you leave the Daisy.
4. When leaving the Daisy, if **Daisy** is equipped with anti-theft device, it should be promptly enabled.

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§3-5 Charging operation :

1. Park **Daisy** to an appropriate charging place, with good ventilation and heat dissipation. Ensure there is no combustible material or fire source around.
2. Turn off the start switch, apply handbrakes, charge the battery until full.
3. Take out the special charger equipped with the car (note that the charger should match the battery), plug one end into the charging port of the car, and plug other end into the ~ 230V power outlet.
4. Charge time is proportional to usage.
5. Remove charger when battery is fully charged.

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PART 4 Daisy maintenance and protection

§4-1 Daisy daily maintenance :

Daisy cleaning :

To protect the **Daisy**, it should be cleaned regularly and in accordance with the normal cleaning method. Attention should be paid to the cleaning process: DO NOT wipe dry.

1. Avoid water into the charging socket of the **Daisy**, to avoid the short circuit of the car body.
2. Wash to prevent water into the battery, after cleaning dry Daisy. Before driving, do a brake test to make sure it returns to normal condition.

Maintenance :

Daisy should be cleaned using running water and a soft cloth or brush to wash and wipe off the dust and mud from the car, in order to keep it clean;

Galvanized, chrome should be coated with a little anti-rust oil, paint can be painted car wax, in order to keep bright and beautiful.

And in each moving part home lubricating oil (WD40) or grease.

Front and rear tires should be properly inflated, it is best to use pressure gauge measurement, according to the provisions.

Check the screws, bolts and nuts of the whole **Daisy** regularly to prevent the parts from loosening and falling off and cause accidents.

Check the flexibility and reliability of front and rear brakes and wheels frequently. Adjust or replace shoes or discs if they are found to be worn or fail to deliver results.

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Periodic Maintenance table :

Daisy shall be repaired in accordance with the prescribed repair time.

The meanings of various symbols in the table are as follows:

Inspect, clean, adjust, lubricate or replace.

(C: cleaning R: replacement A: adjustment L: lubrication I: inspection)

△ This item is repaired by the personnel of special maintenance station, the user has special tool, repair fittings or repair ability, also can repair by oneself.

△△ To ensure safety, this item can only be repaired by the personnel of the special maintenance station.

When the charging part is repaired or the charging fuse is replaced, the 230V power supply must be disconnected and no live operation is allowed.

Maintenance project	Maintain times	Project cycle	Km (remarks)				
			1000 Km	4000 Km	8000 Km	12000 Km	remark
△△	Motor gear oil		Every 6 months R				
△△	Rear braking system		C	I	A/L	A/L	
△△	Brake friction plate		C	I	A	R	
△△	Front braking system		C	I	A/L	A/L	
	Brake switch	1 month	C	I	A	L/R	

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Δ							
Δ	Front and rear lighting	1 month	I/A				
Δ	Nuts and bolts	1 month	I/A				
ΔΔ	Wheels	3 month	C	I	A/L	A/L	
ΔΔ	Bearing	6 month	C	I	L	L/R	
ΔΔ	Battery	1 year or charged 300 times R					

§4-2 Battery maintenance

1. **Daisy** uses Lithium Ternary battery (no maintenance required).
2. When the battery is not in use for a long time, several weeks, make sure voltage is around 61 – 63 Volt and switch off main over-load fuse switch, to ensure no loss of power. Check every month.
Discharge every six months and recharge battery.
3. The charging frequency should be as according to the driving distance and use charging frequency to extend the service life of the battery.
Charge and operate the battery within 100-20% SOC (State of Charge).
4. Generally, using the 10A charger, the battery will be fully charged after charging for about 6.5 hours. Do not over discharge battery.
5. **Daisy** is best not to be exposed to the sun. If left in sun, please open both roof glass and rear glass to keep inside as cool as possible.

§4-3 Simple Daisy trouble shooting :

Problems	Cause analysis,	Elimination method
Noise of reduction gear box too loud abnormal	Lack of oil, poor lubrication	Replace or replenish the specified gear oil
	Low viscosity of gear oil	Replace or replenish the specified gear oil
	Tooth surface damage or wear caused by excessive lateral clearance	Change gear set
	Bearing damage or	Replace the bearing
	Reduction box body or cap compression or impact deformation	Replacement housing
	If the noise during turning increases or the sound is abnormal, the differential gear meshing is bad, blocked, worn, lack of oil and so on	Replace the gear set and differential housing in the differential
The motor turns and the wheel does not turn	Gear assembly gear fit too loose slip	Change gear set
	The planetary gears in the differential engage badly (wear too much) and slip	Change gear set
	The planetary gear shaft is broken	Replace the planetary gear shaft
The gear box	Leakage from motor end: 1. the oil seal tight band spring falls Oil leakage at the end face between the reducer body and the cap:	1.Reinstall or replace the oil seal 1.Replace the gasket 2.Replace the oil seal
	2.Damaged or worn main lip of oil seal	is leaking oil
	1.damage (breakage) of rubber	2.Repair convex point and add asbestos pads

Gearbox bearing abnormal damage	2.The end face of the box body or cover is uneven or has convex points 3.Case body or cover is distorted 4.The fixing bolts between the boxes are loose	3.Replace the box 4.Tighten the bolts as required
	Oil leakage at half shaft joint: 1. the frame oil seal matched with the half shaft is damaged 2. half shaft seal belt finish is damaged or outside diameter size is not required Insufficient lubrication or gear oil does not meet quality requirements	1.Replace the oil seal 2.Improve the half shaft structure and replace the half shaft Check and replace gear oil
	Gear oil cleanliness is Not good or viscosity is too small	Replace gear oil
	The bearing quality is not up to standard	Replace the bearing
Motor does not turn	The supply voltage is too low	Check whether the supply voltage meets the requirement
	Connection line fault	Check all connection lines to ensure proper and reliable connection
	Controller protection	Reset the system
	Controller damage	Replace the controller with the same specification
	Position sensor fault	Replace the controller with the same specification
	Wrong wiring	Check motor and controller wiring to ensure proper and

		reliable connection
Unstable operation	Motor phase deviation is large	Adjust the phase to ensure that it is normal
Daisy jitter	The motor is not properly connected	Check the connection between motor and controller to make sure it is correct and reliable
Abnormal sound at run time or failure to start	Connector loose or unreliable connection or missing phase	Check motor and controller connectors and wiring to ensure they are correct and reliable
Motor temperature is too high or burnt out	Long overload runs	Avoid overload running to choose the right product for the load
The output torque decreases significantly	The magnetic property of the rotor decreases	Replace the rotor with the same cation
The Daisy body shake is bigger when moving	1.The tire pressure is too high 2.failure of front helical spring or front shock absorber	1.Air at standard pressure 2.Replace the front spiral spring or shock absorber
When driving, the rear axle has abnormal noise	1.Rear hub bearing is worn or damaged 2 the rear shock absorber fails	1.Replace the rear hub bearing 2.Replace the shock absorber assembly

Brake wandering	1.tire inflation pressure is not uniform 2.The front hub bearing is worn, and the tightness on both sides is inconsistent 3.Wheel braking force is uneven	1.make the pressure of the left and right wheels consistent, and reach the specified value 2.Replace the bearing, so that the bearing clearance on both sides of the same 3.Replace the brake shoe block or disc brake
Inflexible steering, Direction bar swing	1. Lack of lubricating grease for directional column bearing 2.The anchor bolt of the directional handle is loose 3.The locking nut of the directional column is loose 4.Steering bearing, steel bowl damaged 5.Wheel pressure is insufficient, wheel swing 6.hub nuts loose	1.Add lubricating oil 2.Tighten the bolts and nuts 3.Tighten the lock nut 4.Replace bearings and steel bowls 5.Adjust the tire pressure 6.Tighten the axle nut
The car body shakes when braking	1 brake drum out of circle 2.Brake shoes deform, wear or slip 3.The brake shoes are stained with oil or grease 4.There is something wrong with the brake pump parts 5.The fixing bolt of the brake clamp bracket is loose 6. Uneven wear of brake disc thickness	1.Replace the brake drum or boring the brake drum in pairs 2.Replace the brake shoe 3. remove the oil from the hoof 4. maintenance brake pump 5. tighten the fixing bolt 6. Grinding or changing the brake disc
Motor cannot	1 battery loss, insufficient voltage	1.Charge or replace the new

start	2 the motor wiring harness is broken	battery 2. Check the motor wiring harness and replace it if necessary
The tires wear unevenly	The tire pressure is too low	Inflate to the recommended pressure
Turn on the key switch power indicator does not display	1. Key switch break 2. Loose or broken connection 3. oxidation of battery connector 4. The control circuit or power off switch is damaged 5 battery polarity is reversed	1. Repair or replacement 2. Tighten the connector or connect the wire 3. Polish and clean with sandpaper 4. replace 5. reverse polarity
The Daisy often stop when driving	1 power passing current and thermal protection system bit start 2 the circuit connector is loose	1. check and exclude whether the parking device has been completely released, whether a long time to carry, climb or replace the controller 2. Tighten the connector or connect the wire

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PART 5 Daisy packaging and storage

§5-1 Packing and transportation requirements :

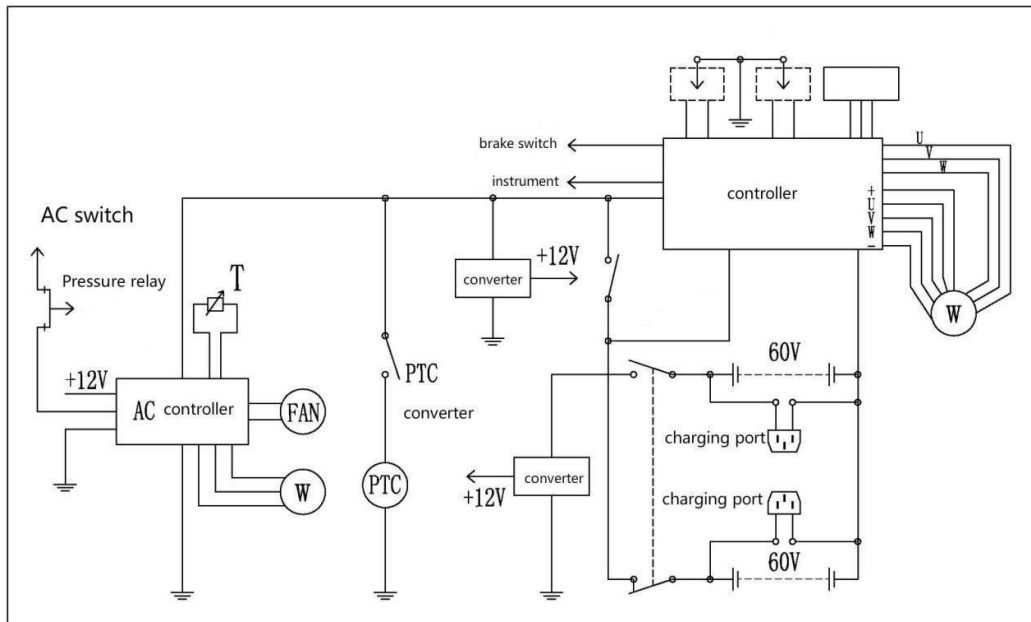
1. Before packing, **Daisy** must be cleaned, the battery connection should be disconnected, and the surface of the chrome-plated parts should be evenly coated with a thin layer of anti-rust oil to prevent rust.
2. Put the **Daisy** onto fork lift, and place onto the packaging frame. The wheels must be blocked front and rear from being able to turn.
3. Tie down **Daisy** onto the packaging frame by straps over axels.
4. Open the door and make sure papers and charger is included.
5. Check **Daisy** parts and tools as well as the signs are complete, cover with dust / foam plastic wrap, cardboard and finally shrink wrap with black plastic.

§5-2 Daisy storage requirements :

1. The storage place should be dry, ventilated, rainproof and sunproof. Inflammable and chemical corrosion products should not be piled around.
2. Storage for a long time, the battery should be fully charged to 61-63 Volts, the power supply should be disconnected, the moving parts should be filled with lubricating grease, and the hood should be covered to prevent damage or failure of the parts caused by not using for a long time.
3. When **Daisy** is used again, if it is stored for more than 12 months, the rear axle gear oil should be replaced and fully charge the battery before use.
4. Carry out the full inspection before driving, try to ride the **Daisy** in an open area for a period of time to ensure safety.

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PART 6 Electrical schematic diagram



PART 7 Manufacturer details

Changzhou Xili Vehicle Co Ltd

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Website: <https://www.changliDaisy.com/>

Address: NO.303 DAPUAN INDUSTRIAL PARK, LIJIA TOWN, WUJIN DISTRICT,
CHANGZHOU CITY, JIANGSU PROVINCE, CHINA

PART 8 Importer details

Ronica Trade Pty Ltd

Tel: +61 3 7036 4440

Website: <https://ronicatrade.com.au/>

Address: 25/58 Mahoneys Road, Thomastown, VIC 3074, Australia

