Quirumed®

Electric Scooter

PE0602



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1. Owner's Manual

1） Using This Owner's Manual

Intended Use: This device is classified as a Class I Medical Device. Its purpose is to facilitate the mobility of people with physical disabilities or reduced mobility. It must be used following the instructions in this manual to ensure the user's stability and safety.

Your scooter will reach you in excellent condition having been personally inspected before leaving the factory. By following the guidelines for maintenance your scooter will maintain its first class condition and give you years of complete reliability and satisfaction.

2. Overview

1） Exterior



1	Control Panel
2	Fold Knob
3	Front Light
4	Tyres
5	Battery
6	Seat Height Adjustment Slot
7	Adjustable Width Armrest
8	Seat

2） Getting On or Off Your Scooter

Getting on the Scooter

1. Ensure the key switch is turned to the off position (Photo 2.1).
2. Lift the control lever under the seat upwards, rotate the seat to face you (Photo 2.2).
3. Lower the armrests completely and steady yourself with the armrests, then gently lower yourself into the seat (Photo 2.3).
4. Lift the control lever under the seat upwards, then gently rotate the seat to face forward (Photo 2.4).
5. Ensure your feet are firmly placed on the scooter's floorboard and secure the seat (Photo 2.5).



P 2.1



P 2.2



P 2.3



P 2.4



P2.5

Getting off the Scooter

1. Steady the scooter and turn off the key.
2. Lift the control lever under the seat upwards, and rotate the seat 90 degrees to the exit.
3. Place your feet on the ground and gently leave the seat. Use the armrests to assist you in leaving the seat.

3） Control Panel

Hand Controls

All of the drive controls for the scooter are to be found on the Tiller Control Box .

The Preset Speed Knob

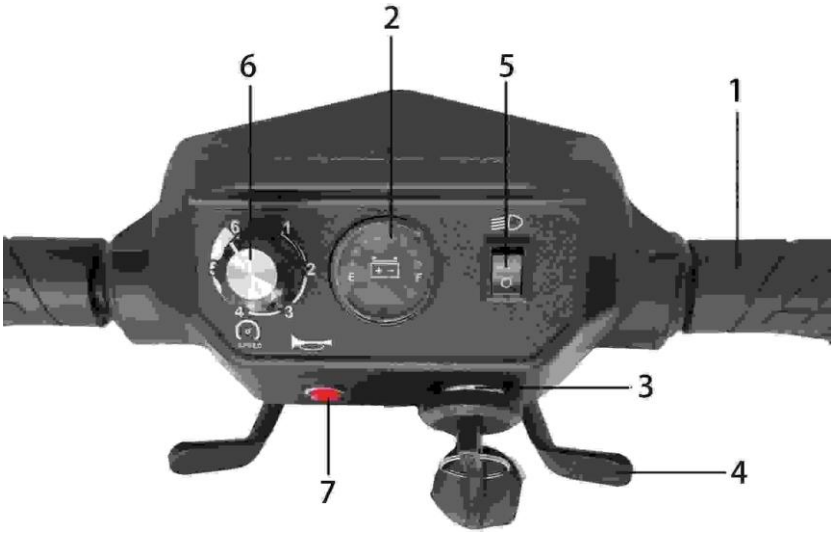
Turning this knob to the left, reduces your available maximum speed. Turning it to the right, increases the available maximum speed.

The Battery Gauge

This gives an approximation of battery charge and is illuminated for clarity. The gauge is “Orange” charge required, to “GREEN” charged. As the scooter moves over differing terrain, the Battery Gauge will dip up and down, this is normal. For a more accurate indication, stop the scooter and note the reading. In cold, damp weather the gauge will dip more often as the capacity and efficiency of all batteries drops in such conditions.

Lamp operation

Press the black on/off button on the front panel to operate the lights. Turn the lights on, day or night, to be more visible in low light conditions.



P 2.6

1	Handle Bar
2	Battery Gauge
3	Keyhole
4	Throttle Control Lever
5	Lighting Control Buttons
6	Pre-set Speed Knob
7	Horn

Warning: Due to the memory effect of lead-acid batteries, the battery may initiate self-protection under low power conditions. Therefore, there may be some discrepancies in the remaining power indication on the battery gauge. When all the green lights representing the remaining power are about to go out, leaving only the orange light, the scooter is also about to become undrivable. At this point, charging is already necessary (Each time after the scooter is fully charged, it can operate until only the orange light remains, and the scooter's cruising range will exceed 10-15 kilometers.) Therefore, we hope you can remember this to avoid unnecessary trouble or danger.

4） Tiller Control Function

Throttle Lever

The throttle lever offers finger-tip control of your scooter.

It controls the speed as well as forward and reverse motion. To move the scooter in a FORWARD motion PULL the lever with the RIGHT HAND or PUSH the lever with the LEFT THUMB (Photo 2.7).

To move the scooter in a REVERSE motion PULL the lever with the LEFT HAND or PUSH the lever with the RIGHT THUMB. The lever will return by itself when released and the scooter will slow to a stop (Photo 2.8).

The more you move the lever, the more your speed increases up to its preset maximum. It is possible to operate your scooter using one side of the throttle lever. To do this you must PUSH and PULL on the chosen side of the throttle lever.

Horn Button

Pressing the horn button operates an audible warning sound. Use this function to warn pedestrians of your presence when necessary (Photo 2.9).



P 2.7



P 2.8



P 2.9

Key Switch

The key switch switches the scooter ON and OFF. Please note that the key cannot be removed when it is in the ON position (Photo 2.10).



P 2.10



P 2.11



P 2.12

Make sure that this switch is in the OFF position BEFORE Getting on or off the scooter. Remove the key to make sure The scooter is OFF (Photo 2.11). Turning the key to OFF whilst driving will cause the scooter To stop very abruptly. This is not recommended except in Emergency stop, as continual use of this function could Result in damage to the scooter.

Off Board Charging Socket

The socket to connect the off-board charger is located on the battery pack (Photo 2.12).

To use the socket, swivel the plastic cover to the left or right to reveal the socket connections. The charger output plug can now be connected ready to accept charge current from the battery charger.

After use, ensure that the plastic swivel cover is rotated back into place. This action helps prevent water from entering the socket connections.

WARNING. Do not attempt to charge your scooter outdoors or in damp/wet conditions. Failure to comply with this instruction may lead to a shock / fire hazard.

5） Freewheel Mechanism

Free Wheel Mechanism (Photo 2.13)

The free wheel device separates the power transmission device and allows manual operation (i.e., the scooter can be pushed at walking speed). This safety feature can prevent your mobility scooter from being illegally driven by someone. By pushing the lever on the right rear, when the lever is pushed to the “N” position, the mobility scooter can be pushed, but cannot be driven. When the lever is pushed to the “D” position, the scooter can be driven, but cannot be pushed.



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Tip: When switching between “N” or “D” positions, the power of the scooter must be turned off.

Warning: Be extra careful when the mobility scooter is in “N” gear, especially on slopes/steep slopes, which may cause the scooter to roll over unexpectedly, please turn off the mobility scooter first, and then adjust the gear to "N".

6） Seat Removal and Adjustment

Removing the Seat

Please note that these instructions are to be used as a guide only.

1. Lift armrests upwards for ease of access (Photo 2.14).

2. Stand behind the seat and fold the backrest down (Photo 2.15).

3. Grasp the seat base and keeping a firm grip, lift the seat vertically, keeping your back straight. Bend knees if required (Photo 2.16).

4. Place seat at desired location for stowage, keeping back posture straight at all times, bend knees where required (Photo 2.17).

Note: Exercise caution when lifting the seat.



P 2.14



P 2.15



P 2.16



P 2.17

Seat Adjustment

1. To adjust seat height, remove the seat as described (Photo 2.18).

2. Move the seat post to the new position and refit the seat pin.

3. Refit the seat. (Photo 2.19)



P 2.18



P 2.19

Armrest Adjustment

1. Loose the adjustable bolt. (photo 2.20)

2. Moving the armrests to the desired position and re-tightening the thumb wheel knobs to adjust the width of the armrest.



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7） Tiller and Battery and Charging

Tiller Adjustment

The scooter features an infinitely adjustable tiller which allows you to lock the tiller in the most comfortable driving position. This feature also lets you fold the tiller down fully, for transportation and stowage. The folding knob is located on the bottom of the tiller.

1. Support the tiller with your left hand.

2. Rotate the folding knob anticlockwise to release the tiller (Photo 2.21-2.23).

3. Move the tiller to the desired location.

4. Rotate the folding knob clockwise to lock the tiller (Photo 2.22).



P 2.21



P 2.22



P 2.23

Battery Removal

It is important to remove the seat and seat post first to allow better access to the batteries.

Lift battery vertically out of its battery tray using the handle provided (Photo 2.24).

Remember to keep the knees bent and the back straight.

Battery Replacement

To replace the batteries reverse the sequence above Important:

Remember to keep the knees bent and the back straight.

When reassembling the scooter, remember to insert the locking pin, because failure to do so may result in the batteries disengaging during use. Ensure the battery wells are free from dirt and grit - this will affect the performance of the battery contacts.

Off-Board Battery Charger

Your scooter is supplied with an off-board charging facility (Photo 2.25).

1. Switch your scooter off at the key switch.

2. Swivel the charge connector cover located on the batter pack and connect the charger (Photo 2.26).

3. Ensure that the charger plug is dry and intact before connecting it to the mains and switching it on.

4. A reset button is located on the battery.

Please check that the button is pressed in (Photo 2.27).



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P 2.25



P 2.26



P 2.27

Note:

El cargador funciona con una potencia nominal de [X]W (compatible con un voltaje de entrada de 100V a 240V); el cargador externo cuenta con dos indicaciones posibles:"

1. **Orange = Charging.**
2. **GREEN = fully charged.**

Ensure the scooter is switched off before commencing the charging process. After charging, always swivels the charging socket cover back into place. This helps prevent water getting into the socket.(Photo 2.27)

Please note that the scooter has a safety circuit to prevent it from being driven off during charging. If your scooter fails to respond to normal control after a charging period, please check that the battery charger has been completely disconnected from the scooter.

The off-board charger must be kept dry in temperatures between - 25°C and 40°C and not be subjected to mechanical damage.

In all cases, the charger must only be repaired by an authorized dealer.

WARNING!

You can only use the original charger from our company. Use other brand charger may shorten your warranty period, and use unknown charger may cause damage to your scooters, and use wrong charger may cause a fire.

Use extreme caution to manage the battery and charger.

Don’t throw the battery into the fire. You should manage the exhausted battery according to the local law.

Don’t put the battery near to any heating device, which may cause the battery to bomb.

Don’t press the battery or stab it, or let it endure any high pressure, which may cause short circuit or overheating. WARNING!

NO SMOKING OR NAKED FLAMES WHEN CHARGING BATTERIES. DO NOT TOUCH BATTERY PACK TERMINALS WITH METAL OBJECTS.

ONLY USE APPROVED REPLACEMENT BATTERIES.

IF DAMAGE TO BATTERIES OR BATTERY BOXES IS EVIDENT, CONTACT YOUR LOCAL DEALER IMMEDIATELY - DO NOT ATTEMPT TO SERVICE THE BATTERIES.

DEALER WARNING!

REMOVE METALLIC JEWELLERY WHEN WORKING WITH BATTERIES.

WEAR GLOVES AND GOGGLES IF MOVING LEAKING BATTERIES. REPLACE DAMAGED OR LEAKING BATTERIES IMMEDIATELY.

Fuses

There is a reset button as described previously. If a fault occurs, the button will pop out. Switch the scooter off, press the button in and switch the scooter back on.

There is a 30A fuse fitted to the positive terminal of battery. These fuses must be replaced by an authorized service agent.

There is also a 2.5A fuse fitted in the charger and a fuse in the mains plug of the battery charger. These fuses must be replaced by an authorized service agent.

8） Battery and Charging Information

General information

Batteries are the power source for almost all of the modern mobility products available today. The design of batteries used in mobility products is significantly different from the batteries used to start a car for example. Car batteries are designed to release a large amount of power over a short period of time, whilst mobility batteries (commonly called deep cycle batteries) release their power evenly over a long period of time. Therefore, due to the lower production volumes and increased technological requirements, mobility batteries are typically more expensive. Commonly two 12 volt batteries are used together in a mobility product giving a total voltage of 24 volts. The size of the battery (e.g. its available power) is expressed in amps per hour (e.g. 10amp/hr). The higher the number, the bigger the battery size, weight and, potentially, the greater the distance you can travel.

Batteries

Your scooter is fitted with batteries that require no maintenance, other than regular charging.

For a longer battery life, we recommend charging without removing the battery whenever possible.

If a battery is physically damaged, please use extreme caution when handling it.

Beware!

Battery fluids are corrosive and care should be taken at all times to avoid contact with it. If it comes into contact with the skin or clothing, wash immediately with soap and water. If it comes into contact with the eye, immediately flood the eye with running cold water for at least 10 minutes and seek medical attention. In such an event, call your local dealer for assistance.

Please do not dispose of batteries in normal waste, always recycle in accordance with local laws.

Maintenance

This is the type of battery used in the battery pack. It uses GEL electrolyte which is totally sealed within the battery's outer case. As the name implies, no maintenance is required other than regular charging. As the battery case is sealed, you can safely transport this type of battery without fear of acid spilling. Furthermore, they are approved for transportation on aircraft, boats and trains.

It is recommended that the batteries are always transported and stored upright.

Only use batteries supplied by an authorized dealer.

Battery care

We have set out a battery care plan for maintenance free batteries. If a different care plan is followed, this may result in lower than expected performance from your mobility vehicle.

Note: Do not expose any part of the battery to direct heat and when charging always place on a hard surface in a room with good ventilation. You should not charge the batteries in outdoor conditions.Do not smoke when in the vicinity of charging batteries. Exclude all naked flames from the area.

Do not allow the batteries to freeze.

Battery pack care plan

1. Only use the approved battery charger compatible with the vehicle to be charged.

2. Charge your batteries over night, regardless of the amount of use your mobility device has had during the day.

3. Do not interrupt the charging cycle.

4. If your mobility device is not required for use, it should remain on charge. This will not damage the batteries, so long as the mains socket/plug is left switched on.

Do not leave the charger still connected to the batteries when the mains has been switched off. This will eventually deplete the battery charge.

5. If you leave your vehicle for an extended period (more than 5 days) first charge your batteries for 12 hours, then remove charger and ensure the batteries are disconnected.

6. Failure to allow for full recharge will damage the batteries and can lead to shortened distances and permanent failure.

7. Do not top up the charge of your batteries during the day except in an emergency. Wait until the evening for a full overnight charge.

8. The batteries need to be checked regularly for signs of damage. If any damage is apparent, contact your local mobility dealer immediately.

9. Following all the eight points above should result in a healthier battery, greater range for the vehicle user and a longer life for your batteries.

Caution

Remember to remove the plug from your scooter when charger is off, to prevent driving away whilst attached. The scooter cannot be operated when being charged.

The range of your vehicle

Most manufacturers of mobility products state the range of their vehicles either in the sales literature or within the Owner's Manual.

The range stated sometimes differs from manufacturer to manufacturer even though the battery size is the same. We measure the range of our vehicles in a consistent and uniform manner, but variances still occur due to motor efficiencies and overall product load weight.

The range figures are calculated to ISO 7176, Part 4: Scooter Energy Consumption Theoretical Range.

The range figures stated should be seen as a theoretical maximum and could be reduced if any single, or combination, of the following circumstances occur:

1. User weight heavier than 300 lbs.
2. Batteries whose age and condition are less than perfect.
3. The terrain is difficult or unsuitable e.g. very hilly, sloping, muddy ground, gravel, grass, snow and ice.
4. The vehicle climbs ramps regularly.
5. The ambient temperature is very hot or very cold.
6. Damage occurring to one or more tyres.
7. Lots of start/stop driving.
8. Also thick pile carpets within the home can affect range.

Always check that the batteries are sufficiently charged before setting off.

Always ensure that your batteries are in good condition and that no leakage has occurred.

Do not expose any part of your charger, battery or scooter to direct heat (i.e. gas fires or naked flame).

Note: If you are out on your scooter and the battery gauge is reading low the remaining range can be increased slightly by decreasing the maximum available speed.

3. Specifications

MODEL NUMBER	PE0602
LENGTH	1050mm
REARWIDTH	500mm
HEIGHT	950mm
MAX.USERWEIGHT	135kgs
BATTERY CAPACITY	24V12Ah
MOTOR POWER	250W
MAX SAFE SLOPE	12°
SEAT-BASE HEIGHT	480-560 mm
MAX SPEED	8km/h
WHEEL DIAMETER	8inches*4
CHARGER OFF-BOARD	2A
RANGE	10-15km
OVERALL WEIGHT	42kg
SEAT WEIGHT	3kg
BATTERY WEIGHT	7.8kg(±0.2kg)
GROUND CLEARANCE	85mm
CONTROLLER (Dynamic)	S1U-2405
According to prevent electric shock category classification A.1.4	Internal power class
According to prevent electric shock category classification	B class

According to the classification on the degree of protection into the liquid	IPX4
In mixture with air of flammable gas and oxygen or nitrous oxide mixture of flammable gas conditions, classify by the safety degree	Not AP/APG
According to the operation pattern classification	Continuous operation
Volts of the mobility scooter power	24V

4. Guidance for Safe Operation and Use

1） General Warnings

Check Before Use: Before using the scooter, please make sure all parts are correctly installed and securely fixed.

Environment Selection: Use the scooter on a flat and obstacle-free surface, avoid using it on slippery or uneven ground.

Correct Posture: Always maintain a correct sitting and standing posture when using the scooter to prevent falls or injuries.

Speed Control: Please control the speed of the scooter appropriately according to the surrounding environment and your own conditions to avoid accidents caused by driving too fast.

Maintenance: Regularly clean and maintain the scooter to ensure its good running condition.

Fault Handling: If any damage or malfunction is found, please stop using it immediately and contact a professional repairman for repair.

Modifications and Accessories: Any unauthorized modification of the scooter's electrical system is strictly prohibited. Installing batteries, power supplies, or additional electrical accessories not supplied or certified by the manufacturer will automatically void the product warranty and CE marking.

The use of non-original components may cause serious malfunctions, overheating, or fire hazards, releasing the distributor from all liability for personal injury or property damage. Any repair of this product must be carried out by an authorized professional.

Incident monitoring and reporting: In accordance with medical device regulations, the user or healthcare professional must report any serious incident related to this device to both the manufacturer/distributor and the relevant authorities. A serious incident is defined as one that could have directly or indirectly resulted in the user's death or serious harm.

Due to the design of the scooter's structure, it is not recommended to drive this product for a long time in areas with high water levels. It is generally advised to drive in areas where the water depth is less than 2 inches to avoid damaging the motor of the scooter.

Although the battery can be easily removed, we recommend that you charge the scooter's battery without removing it. This is because reducing the number of times the battery is plugged and unplugged can extend the lifespan of the scooter.

5. Routine Maintenance

The following table gives an indication as to when routine maintenance checks should be made.

There is no service manual available. ***Maintenance,fault finding and servicing should be carried out by an authorized dealer unless otherwise indicated***	Daily	Weekly	Quarterly	Usually
The checks below can be carried out by the user				
Battery charge check(Photo 5.3) Look at battery charge indicator on tiller before use to ensure batteries carefully charged.	•			
Wipe over with a damp cloth Use a damp soft cloth and mild detergent on panels, battery wells,tiller and seat.		•		
Check tyres Each tyre should be free of debris, oil,deep cuts or distortion.		•		
Long over night battery charge Please ensure that the batteries are		•		

charged for a minimum of 8hours.				
Check tyres for wear (See Photo 5.1 and Photo 5.2) Look at the tyres to ensure that the tread is visible and continuous.			•	
The checks below must be carried out by an authorized dealer				
Seat swivel, seat slide (where fitted)				•
Inspection of wiring and connectors for chafing and wear				•
Battery terminals				•
Clean and protect with petroleum jelly.				
Ensure parking brake(where fitted) is correctly adjusted				•
Check stabilizer wheels for wear				•
Inspect motor brushes				•
Full service by dealer				•



P 5.1



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6. Trouble Shooting Guide

SYMPTON	POSSIBLECAUSE	SOLUTION
Shortened range	Batteries not charged for long enough	Charge batteries for eight hours or more
	Batteries weak and can not hold charge	Replace battery pack
Battery pack not charging or battery gauge shows empty After charging	Battery pack fault	Replace charger
	Charge fault	Contact us at the end of the manual
	Charger loom or plug damaged	Check plug sand looms
	Loose connection	Try a wall socket in a different room
	No out put from wall outlet	Unplug from wall& change fuse
	Fuse in charger mains plug blown	Switch off and press button back in
	Button on battery pack has popped out	Switch off and press button back in
	Output fuse in charger blown	Unplug from wall and contact dealer
Battery charging current high	Faulty batteries	Replace battery pack
	Scooter switched on during charging	Turn Scooter off
No drive	Brake-release lever disengaged	Engage brake-release lever
	Flat batteries	Charge battery pack
	Scooter is not switched on with key	Ensure the key is switched on
	Battery pack not engaged properly	Check battery pack is fully engaged onto connectors

	Charger plugged in	Unplug charger
	Button on battery pack popped out	Reset circuit-breaker button
	Disconnected loom or plugs	Check all plugs & looms
	Control system fault	Contact dealer
Motor runs irregularly and/or noisily	Electrical malfunction	Contact dealer
	Control system fault	Contact dealer

DO NOT ATTEMPT TO OPEN ANY PARTS OF THE SCOOTER CONTROL SYSTEM, BATTERY PACK, LOOMS, PLUGS OR BATTERY CHARGER.

THE CONTROL SYSTEM IS SAFETY CRITICAL AND THERE ARE NO USER SERVICEABLE PARTS

7. Transportation

How to disassemble a mobility scooter?

1. Fold the seat back, loosen the fixing nut under the seat, pull out the screw, and remove the seat and tail basket together (the rear basket can be folded, and users can decide whether to remove the armrests and tail basket according to actual conditions, the disassembly process is opposite to the installation process).

2. Remove the battery from the battery slot and store it separately elsewhere, but be careful to minimize battery collisions.

3. Remove the front basket of the scooter and store it separately.

4. Adjust the angle of the rearview mirror to avoid collision with the rearview mirror when folding the control lever.

5. Loosen the fixing knob of the control lever, fold the control lever to the bottom, and tighten the fixing knob.

Place all the disassembled parts in the trunk of the car, and store the battery in a safe location.

8. Identifier Description

Symbol	Introductions	Symbol	Introductions
CE	CE Symbol	MD	Medical Device
	Name and Address of Manufacturer	EC REP	Name and Address of European Union Authorized Representative
	Date of Manufacture	UDI	Unique Device Identifier
SN	Serial Number		Importer
	Caution		Consult Instructions for Use
	Keep Away From Sunlight		Keep Dry
	Do not dispose of with household waste		Operating temperature: 0° C to 40° C

【Manufacturer】



Company: Tianjin Promoting Medical Technology Co., LTD

Address: Xiyingmen Street, Xiqing District, Tianjin, China.

【European Union Authorized Representative】

EC REP

Humiss Beratung GmbH

Gneisenaustraße 8. 40477, Düesseldorf, Deutschland

【Importer】



Quirumed S.L.U.

C/ Corretger 117 , 46980 Paterna, Valencia (Spain)