RADUS USER MANUAL Tandem Steering Mobility Scooter

Model:: Radius-01



Introduction

Dear mobility scooter user:

Thank you for purchasing our intelligent mobility scooter for the elderly! Before using the mobility scooter, please make sure to read this user manual carefully. If you cannot fully understand the contents or need some assistance, please contact the dealer or our after-sales service department.

This user manual contains information on the operating methods, equipment descriptions, and simple troubleshooting for each part of the scooter.

The symbol "*" used in this manual indicates actions and behaviors that require special attention.

「Warning 」「Attention」 must be carefully read and obey.

- ✓ This user manual includes a maintenance record and notes. Please keep it properly.
- ✓ If you make over this scooter to another person, please also provide them with this manual.
- With the changes in design, all information and pictures in this manual are based on the factory standards. If there are any changes, we will not inform everyone again. Please understand it, thank you for your supporting.

Finally, we believe that our mobility scooter will make your life more colorful.

Catalogue

Main component	3
Performance parameter	4
Operation instruction	5
★ Unpacking instruction	5
★ Power switch	7
★ Speed adjustment	7
★ Driving Control	7
Lights and horns	7
Brake lever	7
Folding method	8
Battery and charging methods	9
★ Battery considerations	9
★ Charger	9
★ Charging method	9
Basic overhaul and maintenance	10
Daily inspection	10
Maintenance	10
Common troubleshooting	11
Warranty description	13
Components and parts	14

1.Front 2.handlebars 3.throttle & brake 4.height adjustment lock 5.front decorative panel 6.headlamps 7.horn 8. front Angle adjustment switch 9.Air pressure support 10. holder 11. pedal 12. detachable pad 13. backrest 14.Seat folding operation lever 15.dashboard 16.tail light 17.powerswitch&speedadjustment 18.Anti roll wheel 19.Power switch & speed adjustment 20.Headlamp switch 21.real-time speed 22.power 21.mileage 24. horn switch

Performance parameter

Package size (L*W*H)	1050*670*430mm
Unfold size (L*W*H)	1040*600*900mm
Fold Size (L*W*H)	1000*600*320mm
Seat cushion size (L*W*H)	400*400*40mm
Curb weight	27KG(excluding armrests)
Split weight	25.8kg
Seat height from the ground	520mm
Handlebar height from the ground	800-850mm adjustable
Maximum load	120kg
Motor	250W brushless
Battery	Lithium battery 24V 6Ah * 2
Controller	intelligent controller
Headlights	LED
Taillight	LED
Screen	LCD instrument
Rear wheel size	8 "PU solid tires
Front wheel size	8 "PU solid tires
Speed	0 ~ 6 km/h adjustable
Climbing Angle	≤12°
Climbing distance	≤200m
Steering	rear wheel follow-up steering
Minimum turning radius	45cm
Obstacle crossing height	≤5cm
Travel distance	10~20km
Brake	electromagnetic brake
Charger	special DC24V/2AAC110-250V
Charging time	4-6h

Operation instruction

★ Unpacking instruction

- Find the upward sign "↑" on the outer box and stand the carton up in the direction of the arrow, then open the carton from the top and observe the position of the scooter wheels.
- Gently put the carton down along the wheel position, make sure that the four wheels are on the ground, and then grab the round tube at the bottom of the pedal to pull the car out of the carton.



- 3) As shown, lift the backrest up and forward back until it is in a fixed position.
- 4) As shown in the picture, one hand press the middle position of scooter head, while the other hand press the scooter head to make it slowly raise.



Attention: Air pressure prop exist the a fixed risk.

please make sure your both hands to operate it at the same time, if necessary, please ask your partner help you, the wrong operation may lead to the danger and will damage the scooter.

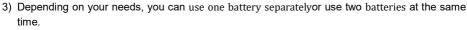
5) Open the handlebar height adjustment buckle, you can adjust the handlebar height up and down, and then lock the buckle. As shown in the picture, grab the bar up, lift the seat, hear the click that the seat is in place.

6) As shown in the figure, insert the battery under the seat and pay attention to the positive and negative directions of the battery.

★ Check the mobility scooter, instrument, footrest and battery .etc. for damage (if there is any damage, please contact the dealer for replacement)

★ Power switch

- This scooter can be equipped with two pieces of batteries, the battery has a separate switch located at the front of each battery box, as shown in the figure, "O" indicates that the power off, "-" indicates that the power on.
- 2) Make sure that the battery power has turned on, rotate the round knob on the instrument clockwise until you hear a "click", then the screen will be lit up, now the mobility scooter has been turned on and you can drive.





Warning: Please do not turn off the power when the mobility scooter is driving, otherwise the electromagnetic brake will engage and the scooter will stop suddenly.

★ Speed adjustment

The speed can be adjusted the maximum forward speed within the range of 0.2Km/h ~ 6Km/h, which can be set arbitrarily. Rotate round knob counterclockwise for a slow speed setting, rotate the round knob clockwise for a fast speed setting.



★ Driving Control

- 1) The right thumb pushes forward the right joystick to go forward, and vice versa to go backward; The left thumb pushes forward the left joystick to step back, and vice versa to move forward.
- 2) After the speed adjustment rod is completely released, it will automatically stop in the "center" position, and the electromagnetic brake will automatically brake the vehicle.

Lights and horns

Pressing the yellow button will sound an alarm; Press the red button to turn on the headlight and press again to turn it off.

Brake lever

A red joystick under the taillight can switching between mobility driving and a manual drive.

"Mobility Drive": Make the brake lever down (Locked) for mobility walking.

"Manual drive": Make the brake lever up (unlocked) for mobility walking.



Warning: Do not make brake lever up into the manual drive state, now the scooter without any braking effect.



★ Pay attention to

- 1) Please turn off the scooter when you going to drive it or leave the mobility scooter
- 2) Do not operate the throttle with both hands at the same time.
- Do not turn off the power switch while driving, otherwise will lead to an emergency brake and drop risk.
- 4) The braking distance will change according to the driving road conditions, so if you want to stop, please brake the mobility scooter in advance.

Folding method

1) As shown in the figure, make the mobility scooter wheel forward the straight-ahead directions (non-steering state), and then remove the soft cushion and soft backrest.

- 2) Lift the bottom joystick and press down the seat so that the seat will fit the body.
- As shown in the figure, press lever of the scooter front head and thenpress the handlebars to the ground until close to the cushion.
- 4) Lift the footrest up to complete the folding.





Battery and charging methods

★ Battery considerations

This product uses two sets of 24V 6AH high-performance lithium-ion batteries, which must be fully charged for the first use.





Pay attention to

- 1) <u>Do not disassemble the lithium battery privately, otherwise it may cause accidents and body injury.</u>
- 2) Battery operating temperature: 5 ± 2 ~40 ± 2 .
- 3) <u>Don't drive scooter on low battery capacity for a long time, otherwise the battery life will</u> <u>be shortened.</u>
- 4) <u>Please charge the battery every two months, charge it about 80% of battery capacity. If</u> <u>the battery loses power for a long time, the battery will be damaged, and we will not bear</u> <u>the loss caused thereby.</u>

★ Charger

- 1) This product uses AC100-240V / DC24 / 2A lithium battery special charger, do not mix other chargers to avoid danger.
- 2) Do not disassemble or modify the charger.
 - 3) Do not cover and block the charger to avoid affecting heat dissipation
- 4) Keep the charging environment ventilated.

★ Charging method

- 1) Turn off the power of mobility scooter.
- 2) Direct to plug the charger plug into the charging socket of the battery under the seat.
- 3) Insert the charger power plug into the home power supply.
- 4) When the charging is connected to the home power supply, the red indicator lights up, and the charging time according to the battery state and temperature which is generally 2-6 hours.
- 5) After charging, the charger automatically stops working and the indicator changes to green, please pull out the input plug of the charger, and then pull out the plug of the battery side.

Basic overhaul and maintenance Daily inspection

Inspection item	Scope of examination
Handle	Is there a loose, whether it can be normal around? Is the expansion normal?
Seat and backrest	Is there any loose, inclined, and whether it can fold normally?
Speed adjustment	Does it rotate normally? Can you adjust the speed normally?
knob	
Forward and	Can you push it down and return to the middle and stop?
backward control	
lever	
Brake lever	Normal separation?
Battery status	Is the pointer meter leaking? Is the battery charge sufficient?

Maintenance

- 1) Check regularly insulation of all wires and tightening of wire end regularly.
- 2) Avoid moisture of all electronic control module, otherwise it must be completely dry before use.
- 3) Please use a soft duster cloth to wipe the dirt of the mobility scooter body and do not cleaning the scooter body with water.

Common troubleshooting

The controller contains a program to identify problems and troubleshoot. When the diagnostic program detects problems and errors, the LED on the control panel shines, the fault alarm buzzer will alarm, and the fault display LED shines continuously in the form of a 1-bit fault indicator code until troubleshooting. If the problem persists, please get in touch with us or the agent.

Fault disp		Failure	Trouble shooting
code	description	category	
E1.2	communication fail	Instrument/dr ive failure	 a) Check whether the instrument line sequence is correct b) Is the fault of the replacement instrument normal? c) Is it normal to replace the controller? d) Replace the instrument and controller at the same time
E0.1	Overcurrent fault	Drive failure	 a) Check whether the instrument line sequence is correct b) Is the fault of the replacement instrument normal c) Is it normal to replace the controller d) Replace the instrument and controller at the same time
E0.2	Undervoltage fault	Drive failure	a) Check battery power and charge b) Troubleshooting replacement of drive
E0.3	Overvoltage fault	Drive failure	a) Check battery power b)Troubleshooting replacement drive
E0.4	Stalled rotor fault	Drive failure	 a) Check whether the motor is stuck b) Troubleshooting replacement of drive c) Troubleshooting replacement of motor
E0.5	The above mos fault	Drive failure	a) Troubleshooting replacement of driver b) Check the motor replacement
E0.6	The following mos fault	Drive failure	a) Troubleshooting replacement of driverb) Check the motor replacement
E0.7	Hall failure	Drive failure	 a) Check whether the motor wiring harness is damaged, disconnected or short-circuited b) Troubleshooting replacement of drive c) Check the replacement motor

E0.8	mos over temperature fault	Drive failure	a) Cool down the drive b) Troubleshooting replacement of drive c) Check the replacement motor
E1.7	Brake failure	Drive failure	 a) Check whether the motor brake is closed b) Check whether the motor wiring harness is damaged or short-circuited c) Troubleshooting replacement of drive d) Check the motor replacement
E2.1	Forward and backward potentiometer falls off	Instrument failure	 a) Check whether the handle is well connected b) Check whether the handlebar line sequence is correct
E2.2	The forward and backward potentiometers are not in the neutral position when turned on.	Instrument failure	 a) Check whether the handlebar is in the neutral position b) Check whether the handlebar line sequence is correct

Warranty description

Warranty project	Free warranty period
Main frame of mobility scooter	3 years
Motor	1 year
Battery	1 year
Controller	1 year

★ The following conditions are not covered by the warranty

- 1) Due to improper use, man-made damage, overload, unauthorized modification, wading driving or privately dismantling the motor.
- 2) The battery is not properly charged, the battery is disassembled and modified, and not charged for a long time (2 months or more).
- 3) Consumables are not within the scope of warranty, consumables mainly refer to tires, bearings, etc.
- 4) Typhoon, flood, earthquake and other irresistible causes.

Components and parts

name	quantity	remarks
Charger	1	/
Instructions	1	/
Spanner tools	3	/
Handrail	1	Additional selection is required
Car basket	1	Additional selection is required