

BRUNO LITE Lite POWERCHAIR



TopGun
Mobility
Mobility & Homecare Specialists

USER MANUAL

CONTENTS

INTRODUCTION	1
BRUNO LITE LITE SPECIFICATIONS.....	2
SCHEMATICS.....	3
PRODUCT PRESENTATION	4
SAFETY USE.....	5
GENERAL DRIVING PRECAUTIONS.....	5
ASSEMBLY INSTRUCTIONS.....	7
UNPACKING:.....	7
STRAIGHTENING THE BACKREST:	7
CONTROLLER INSTALLATION:.....	7
USE OF CLUTCH	8
ANTI-TIP WHEEL ADJUSTMENT	8
ARMREST DEPLOYMENT.....	8
USE OF SAFETY BELTS.....	9
CHARGER AND BATTERY.....	10
REQUIREMENTS FOR THE CHARGER	10
USE OF THE CHARGER	10
REMOVEING THE BATTERY.....	11
PAY ATTENTION TO:	11
WARNING	11
SAFE USE OF BATTERIES	12
MAINTENANCE	13
TYRES.....	13
BATTERY	13
ANTI BACTERIAL/DISINFECTION	13
CONTROLLER	14
BUTTON DESCRIPTIONS.....	14
POWER BUTTON.....	14
CONTROLLER POWER OFF.....	15
DRIVING SPEED.....	15
SPEAKERS.....	15
BATTERY POWER DISPLAY	15
LIGHT AND SOUND MODE.....	16
CARE MODE	16
ELECTROMAGNETIC INTERFERENCE.....	16
WARRANTY	16

INTRODUCTION

Thank you for choosing Top Gun Mobility for your portable wheelchair transportation needs. Congratulations on your choice of Power Chair, which will provide you with years of dependable service with proper use and care.

It is important to read through this manual before operating your Top Gun Mobility Power Chair to become familiar with its features as well as its limitations and safety information. You will find the operation and care of your Top Gun Mobility Power Chair very simple and easy, however should you have any questions please don't hesitate to contact your local retailer.

Recommendation

This manual serves as the ultimate guideline for you and your assistant or caretaker who's helping you with operating this power chair. Read this manual carefully and review it often until you are certain how to handle every operation of this power chair.

Top Gun Mobility and its affiliates cannot be held responsible for personal injuries or property damage caused by improper handling of the BRUNO LITE Lite power chair.

Your opinions are very important to us – if you have any comments on the functionality and safety of this power chair, or the contents of this manual, please feel free to make contact with your local retailer, distributor or Top Gun Mobility.

Please note details contained within this User Manual are accurate as at time of print and subject to change without prior notification. Please use due diligence when deciding if this product is right for you.



office@topgunmobility.com.au
www.topgunmobility.com.au

BRUNO LITE LITE SPECIFICATIONS

Weight Without Batteries	17.2kg
Safe Working Load (SWL)	130kg
Operational Range	Up to 15km/h (10Ah Lithium Battery)
Battery Size	24V 10Ah Lithium
Battery Charger	24V 2A
Motor Power	200W Brush Motor x 2
Controller	LED Controller Brushless
Charger Size	24V 2A
Tyre Size Front	Magnesium Alloy 6.5" Solid Tyre
Tyre Size Rear	Magnesium Alloy 11" Solid Tyre
Seat Size (W x D x H)	45 x 45 x 5cm
Height – Seat Cushion to Floor	49cm
Height – Armrest to Floor	71cm
Backrest Height	50.5cm
Ground Clearance:	10cm (pedal to ground) 48.5cm (top of seat to ground)
Turning Radius	60cm
Max. Speed	6km/h
Dimensions (L x W x H)	89 x 56 x 91cm
Folded Dimensions (L x W x H)	56 x 36 x 69cm
Warranty	2 Year Warranty

SCHEMATICS



PRODUCT PRESENTATION

Product performance:

BRUNO LITE Lite is designed to give the user a smooth and safe feeling while driving. It is suitable for driving over flat surfaces with some minimal rough terrain, which is dependent on user ability, good conditions. It is not designed to be driven as a four-wheel drive vehicle.

Structural composition of the products:

This product is composed of an aluminum alloy frame, control system, and transmission system, seat cushion, backrest, armrest, wheel set, electric motor, storage battery and so on.

Scope of application of the products

The product is suitable for only 1 person with a user weighing no more than 130kg, disabled or no complete walking ability.

SAFETY USE

- Main safety characteristics of the electric wheelchair
- According to the shock protection type: internal power supply equipment, Class II device.
- According to the degree of electric shock prevention classification: BF-type applied parts.
- According to the degree of protection of the inlet liquid: IP24.
- Safety classification in the case of flammable anesthetic gas mixed with air or flammable anesthetic gas mixed with oxygen or nitrous oxide: non-AP / APG.
- Classification by operation mode: continuous operation.
- Rated voltage: Charger operating voltage: AC220V 50Hz internal power supply voltage: DC24V input power: 200VA.
- No fear of the application of defibrillation discharge effect protection part
- No signal output part or the input part.
- Non-permanent installed equipment.
- The wheelchair's applied parts are designed to remain below 43°C even at maximum operating temperature.

GENERAL DRIVING PRECAUTIONS

If any vehicle is used wrongly, it can cause injury, and careless driving may endanger your own personal safety, but also affect the personal safety of others. Please follow the operating rules listed in the instructions and use your electric wheelchair properly.

- Always sit straight as possible and keep your arms on the armrest with the fleshy piece between your thumb and index finger on the base of the joystick to control your driving.
- Practice driving in a safe place such as a park, or empty road to get used to the sensitivity of the chair when it is driven.
- Do not attempt unsafe obstacles to prevent injury to yourself or others.
- Please follow general road rules, pedestrian rules and common-sense rules when driving your wheelchair. Your safety is your responsibility.
- Please drive smoothly, avoid zigzagging, sharp turn.
- Please keep the specified tyre pressure. When the tyre pressure is abnormal, it may cause unsafe driving and excessive current consumption.

Warning

- Do not switch the wheels to manual mode or turn off the power while on a slope, as this could cause the wheelchair to roll away or lose braking, resulting in injury.
- If the wheelchair malfunctions at a traffic intersection, immediately ask bystanders for help, release the wheel clutches, and push the wheelchair out of the roadway, or evacuate to a safe area.

Avoid using in the following circumstances or places, please walk with your carer.

- In bad weather (rainy days, heavy fog, strong wind, snow day).
- In case it gets wet, please dry immediately.
- Bad Road driving (muddy, ski track, sand, gravel and other weak road surface).
- Large side ditch, pond and other shoulder road.
- Over railway ramps. If you must cross a railway, please stop at the ramp and confirm that the track will not jam the wheels.
- This chair is only for single use, do not carry others and for pulling purposes.

Precautions on uphill and downhill descent

- Please avoid driving on steep slopes. The slope Angle should be less than 8 degrees. When driving uphill, lean forwards slightly to maximize your center of gravity.
- Go up and down hills only, never cross paths.
- Drive at the lowest speed when going downhill and lean back a little to maintain the center of gravity.
- Please drive at a moderate speed when going uphill and lean forward a little to maintain your center of gravity.
- Avoid driving across a hill as this may cause the chair to tilt.
- No driving over obstacles until you gain some experience on how to use the joystick control to adjust the speed.
- Avoid crossing wide ditches.

Precautions for Carers

- Please ensure the users' feet are safe on the pedal and clothes will not contact the wheel.
- Please keep the gear to make the electromagnetic brake function. Do not release the clutch by yourself without the consent of the user.
- Make sure that the vehicle is in a braking condition when the vehicle stops

Other precautions**Repair modification**

If necessary for repair and modification, please contact your supplier. Unauthorised self-modification will void all warranties and may cause a safety issue.

Always keep dry, your chair is shower proof and requires drying, but it is not rain drenched proof.

Do not place the product with heavy moisture. Eg.set it aside in the shower. If you get wet, you must dry the water immediately.

EMI protection

This product must be used away from the strong magnetic field and large inductive electrical equipment, such as radio stations, TV stations, underground radio stations, radio, mobile phone transmitting stations. Pay attention to whether the accessories has electromagnetic interference source, and try to keep away from them and avoid electromagnetic interference source. This product should avoid electromagnetic interference.

Quick installation

UNPACKING:

The product packaging box contains a whole vehicle, a set of batteries, a charger, and a copy of the user manual QR Code Card.

STRAIGHTENING THE BACKREST:

Place the wheelchair on a flat surface. Grasp the back frame with one hand and the seat cushion with the other, and pull the frame apart until it locks into the open position. Ensure the locking latches are securely engaged (as shown in the figure).



CONTROLLER INSTALLATION:

Hold the controller to insert the controller rod into the fixing slot, adjust its appropriate position to tighten the adjusting screw, connect the controller plug, align to insert, and then tighten the fixing nut. Note that when connecting the plug, align the arrow above the two plugs to ensure that the two arrows are inserted in the same line. If the arrow is not aligned, the wrong force to damage the plug will cause the wheelchair to be useless (as shown in the figure).



USE OF CLUTCH

When the electric wheelchair fails or the battery cannot run normally, switch the wheelchair to manual mode to the safe area. The specific operation is as follows:

(1) Electric mode to manual mode: push the handle on the motor forward, and you can switch to manual mode. In this state, you can push forward by hand.

(2) Manual mode to electric mode: push the handle on the motor backward to switch to electric mode. In this state, hand push is not supported (electric driving mode)



ANTI-TIP WHEEL ADJUSTMENT

The wheelchair is fitted with anti-tip wheels at the rear to prevent tipping. To adjust their length for proper clearance:

(1) Loosen the locking pin on the anti-tip wheel bracket.

(2) Slide the anti-tip wheel tube to the desired position (extending it further back will provide better stability against rear tipping).

(3) Reinsert the locking pin into the appropriate hole to secure the adjustment (there are two adjustment holes for fine-tuning).

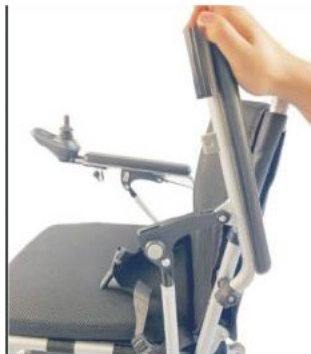


ARMREST DEPLOYMENT

The armrests can be lifted to facilitate transfers. To unfold an armrest:

1. Locate the release button on the side of the armrest (as shown in the figure). Press the button and lift the armrest.

2. Before driving, always ensure the armrests are fully locked in place for safety.



USE OF SAFETY BELTS

Always fasten your seat belt when using an electric wheelchair.



REQUIREMENTS FOR THE CHARGER

The charger is used when charging the internal power supply of the product and shall not be used when charging, so the selected charger shall meet the following requirements: 5.1.1. Parameters

Input voltage: AC220V 50HZ output voltage: DC24V output current: 3A 5.1.2. The inlet liquid protection level is IP24 5.1.3. The selected charger shall meet the requirements of GB9706.1-2012

USE OF THE CHARGER

The charger provides charging for the wheelchair, and the charging plug connects to the jack under the controller (as shown in the picture). Follow the following instructions to complete the charging steps.

Step 1: Check the charging socket to ensure that there is no blocking.

Step 2: Make sure that the controller power switch is off.

Step 3: Put the output plug of the charger into the jack under the controller. The input plug of the charger connects to the home 220V power supply, and the charging starts.

Step 4: When the charger green indicator light is on, the charging is complete.

Step 5: After charging, unplug the input plug and the output plug of the charger.

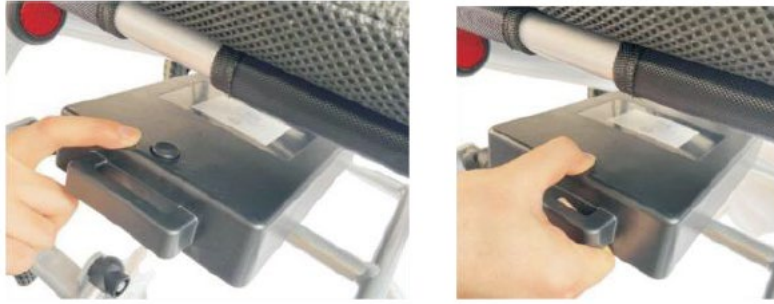
Charging the charger must be connected to the battery before the power socket, which can be charged for up to 6-12 hours. Generally, the green light of the charger means the charging is completed. When the charger disconnects the power, please remember to connect and unplug the output plug to avoid consuming the battery power. When the product is idle, please fully charge it once a month to prevent the battery life from shortening.



REMOVING THE BATTERY

Press the button above the battery case (shown)

Lift the battery up and you can remove it.



PAY ATTENTION TO:

Please follow the following rules to avoid the danger during charging:

1. When the charge is complete, the charger indicator light turns green.
2. After charging (generally 8-10 hours), unplug the plug. If the wire is not removed, the battery will be slowly discharged, but the maximum should not exceed 12 hours, so as not to avoid the danger caused by overcharging the battery.
3. If you do not use the product for a long time, please be sure to fully charge it once a month.
4. Charging time is related to the ambient temperature, and the charging time is slightly longer in winter than in summer.
5. Please use the company's standard charger, non-standard charger is easy to lead to danger, it is strictly prohibited to change and modify the charger line without permission, if the product or personnel accidents caused, the company will be responsible for it.
6. Charging the environment should be well ventilated, do not be exposed to sunlight or humid environment charging.
7. Do not cover any tarp or other items when charging. Do not charge in an environment below minus 10 degrees and above 50 degrees. At this time, the charger can not play a good function and is easy to damage the battery. The charger will produce a certain amount of heat when charging, please rest assured to use. This phenomenon is the heat dissipation effect of the working process of the charger. This charger is not waterproof function. Do not place the charger on flammable items for charging, such as oil, pedals or chairs.

WARNING

Charging must be kept away from the high temperature and flame, which will cause the battery to catch fire or explode.

Do not charge it indoors.

When the charger is charged, please place the wheelchair in the open area to ensure that there is no fuel nearby. To ensure fire safety.

SAFE USE OF BATTERIES

The wrong replacement of the battery has the risk of explosion. When replacing the battery, you can only use the same battery as the original battery or recommended by the manufacturer, and pay attention to the correct positive and negative polarity of the battery.

To extend the main point of the service life of the battery is to charge regularly, so that the battery power is full, if the product is temporarily not used, it is best to use the battery enough, such as long-term use, must be fully charged once a month.

MAINTENANCE

The user's maintenance of the wheelchair includes - cleaning, tyre inspection, battery charging, and further maintaining the product to the customer service staff. We suggest that you: check the product every 6 months and repair it once a year.

Clean the wheelchair with TYRES and battery maintenance

Clean the wheelchair

The product surface is cleaned from dust regularly and then wiped clean with a wax polish or with a clean soft cloth.

TYRES

Regularly check the wear of inflatable TYRES and clean up the debris inside the tread.

When the depth of the tread is one millimetre, it is recommended that you replace the TYRE.

BATTERY

Please confirm that the battery is often charged. We suggest that you recharge the battery without being completely free, so as not to reduce the battery life.

ANTI BACTERIAL/DISINFECTION

This product is not a sterile product, so the car body needs to be kept clean in daily use.

When the product is in the process of production or use, such as the operator or patient's blood, secretions, excreta and other pollution of the car body, refer to the clause 13.1.3 the Technical Specification for Disinfection of Medical Institutions (WST367-2012), wipe the wheelchair with 1000 - 2000mg / Liter quaternary ammonium salt disinfectant, act for 30 minutes, and then wipe clean with clean dry cloth, dry.

Damage to the wheelchair and self-examination

When the wheelchair fails during use, please check the product after the power supply is turned off.

Symptoms: Complete loss of power and indicator on the controller.

Check steps:

Check whether the controller plug is loose.

Check whether the plug between the battery box and the control system is loose and insert the plug again. Please pull the plug, please hold the plug and do not pull the line, to avoid unnecessary damage to the line.

If the product can not restore power after checking in the above steps, or there are any questions about operating the above steps, please contact your nearest Top Gun Mobility retailer immediately.

Wheelchair vehicle maintenance inspection

The following is a checklist for the wheelchair. Please check the product as recommended below. Some inspections are automatically inspected when you sit in or get up. In order to give you more attention, we list these automatic inspections in area A.

area A	Please check whether each item is secure before each use: 1. Armrest 2. Armor and seat belt 3. condition above the controller 4. Joystick device 5. pedal 6. Power quantity 7. clutch Pull the levers back and forth ensuring free wheel and locked
area B	Check every month. 1. Nuts and bolts are loose - tighten 2. self-actuating brake 3. Front and rear wheel are secure 4. Charger and controller connector are clean
area C	For your safety, please be sure to conduct a thorough maintenance of the tyres every 6 months

CONTROLLER



BUTTON DESCRIPTIONS

1, Speed display 2, Power switch button 3, Gear reduction button 4, Horn button 5, Battery display 6, light button & invoice mode 7, Gear increase button 8, Care Mode Switch.

POWER BUTTON

Product power switch and sleep function

Press the power switch button of the controller, the power indicator is on, the power indicator is on from left to right, and the buzzer has a "drop" sound, the controller is normal. And no abnormal

means that the controller is working normally, the driver can control the remote pole for driving operation.

CONTROLLER POWER OFF

Press the power switch button and all LED lights on the panel are off with no output from the controller.

Notice

In some emergency cases indicating a device error, you can press the power switch button to power off the controller.

If the power supply is turned on when the remote pole is not in the middle position, the error message "The remote pole is not in the middle when the power supply is turned on" is displayed. Release the remote bar and get it back to the middle position, and the error disappears. This function is to avoid driving the remote pole without being in the middle when the controller power is turned on or the prohibited condition has been removed. This function can prevent the sudden or unexpected action of the electric wheelchair.

Warning

If the remote pole is dropped and returned to the middle position, the error still exists, it may be the remote pole element or the controller program is wrong, please do not use the product, and please consult the repair manufacturer immediately.

2. Sleep mode

If there is no action in the remote pole. After 10 minutes, the controller will automatically turn off the power supply and enter the hibernation mode. Press the power switch button to awaken the control system from the sleep mode.

In dormancy mode, its power consumption is very small, do not have to worry about damage.

DRIVING SPEED

According to the user's habits and different site environment, the user can adjust the speed of the wheelchair.

At present, the upper controller panel shows that the speed is 5 gear, which is the fastest and the first gear is the slowest. Users can use the 3.7 key to adjust the speed of the wheelchair according to their own situation or the site environment to meet the travel needs.

SPEAKERS

Press the horn button, (No. 4 in joystick schematic above) the horn will sound until the horn is released.

BATTERY POWER DISPLAY

The battery power shows the predicted value of the remaining power of the battery; it is not 100% accurate but offers you to charge when necessary.

When the five bars are displayed, it means that the battery is full, and only the 1-2 bars show, it means that the battery needs to be charged. It's best to fully charge before a long drive. If only one grid is displayed, for the battery low power warning prompt, it needs to be charged as soon as possible. To extend the life of your battery, never let it drain empty.

LIGHT AND SOUND MODE

Press the light button (No.6) to turn on the light. Press and hold to activate sound mode.

Press and hold again to deactivate sound mode.

CARE MODE

Press and hold the Care Mode (No.8), then press the Horn button (No.4) to activate Care Mode. In Care Mode, the controller cannot be used. You can use the rear control to allow accompanying personnel to control forward movement. In Care Mode, the electric mode can also be used to push the wheelchair. Press and hold the Care Mode (No.8) again, then press the Horn button (No.4) to deactivate Care Mode. The controller can then be used normally.

ELECTROMAGNETIC INTERFERENCE

Powered vehicles such as the BRUNO LITE Power Chair may be susceptible to electromagnetic interference, which is interfering electromagnetic energy emitted from sources such as radio station, TV station, amateur radio transmitters, two-way radios, and mobile phones.

The interference (from radio wave sources) can cause the BRUNO LITE Powerchair to release its brakes, move by itself, or move in different directions.

WARRANTY

This is to certify that your TOP GUN MOBILITY product offers a 2 Year limited Warranty from the date of original purchase. Should a defect or operating fault arise within this period the Retailer, from where the product was originally purchased, should be notified immediately. Failure to register the fault may invalidate the warranty.

The Retailer from where the product was purchased is responsible for any warranty repairs. Top Gun Mobility warrants as per the terms and conditions below, that if a fault occurs within this period due to faulty workmanship or materials that the product will be repaired (or replaced at the Company's discretion) free of charge. Any unauthorised modifications will invalidate the warranty.

Note: Your selling retailer is responsible for the repairs, and should you not be able to return the product to the selling retailer or another Top Gun Mobility Retailer, you may be liable for any labour charges, parts will be supplied free of charge. You will be liable for all labour and parts costs should the repairs not be covered under warranty.

Component parts replaced outside this period carry a six-month warranty. (Standard terms and conditions apply for this period).

TWO-YEAR LIMITED WARRANTY

- Structural frame components, including: platform, fork, seat post, and frame welds (excludes canopy or canopy framework)
- Drivetrain, including: differential, motor.

ONE-YEAR LIMITED WARRANTY

Your Top Gun Mobility Powerchair is fully guaranteed for two (2) years from the date of purchase against faults arising due to defects in manufacture or materials. This warranty does not detract from, but is in addition to your legal rights.

All electronic parts, including controllers, brakes, batteries and battery chargers, have a one (1) year warranty. Servicing to the controller or battery charger must be carried out by your authorised Top Gun Mobility Provider. Any attempt to open or dismantle these items renders the guarantee void on that item.

This warranty is valid for the replacement of dysfunctional parts only. Any parts under warranty will be replaced and shipped to your door. Any service and labour fees, if applicable, to replace parts under warranty must be paid by the user. Due to its straight forward design, most parts can be easily exchanged by the end user without a professional service tech required. However, it is always recommended you seek professional help for maintenance and service, to make sure the work is down properly.

NOT COVERED UNDER WARRANTY

The guarantee does not extend to those items which may need replacement due to normal wear and tear (tyres, belts, bulbs, upholstery, plastic shrouds, motor brushes, fuses, and batteries), or damage to the product caused by misuse or accident for which Top Gun Mobility or its agent cannot be held responsible.

Note:

Transport/Call Out Costs - As the owner you must bear the cost of transporting the unit to the retailer or should you decide to have the retailer come to you, you must bear the cost of the retailers call out fee. Your retailer may choose to waive this cost, but this will be at the retailers discretion only and separate to TopGun Mobility's warranty terms and conditions.

1. Products damaged by user negligence
2. Products damaged accidentally
3. Products damaged intentionally
4. Products that have been subjected to negligence
5. Products that have been subjected to abuse
6. Products that have been improperly stored
7. Products that have been improperly handled
8. Products that have been improperly operated.
9. Products that have experienced general misuse.
10. Products that have been modified in an unauthorized, unapproved way.

Warranty is non-transferable and only valid for the original wheelchair purchaser

COMMERCIAL USE

Any TopGun Mobility products used in a commercial application will only be covered by a 12-month warranty from the purchase date and will be excluded from any coverage mentioned in the warranty relating to 5 (five) or 3 (three) year warranty. All other conditions in this warranty will apply.

SERVICE CHECKS AND WARRANTY SERVICE

Warranty service can be performed by an authorised Top Gun Mobility Provider. Please contact your authorised Top Gun Mobility Provider for advice on the current cost affecting the service visit.

Selling Retailer to complete at time of sale in order to Register Warranty with Top Gun Mobility

Copy completed details and forward to : office@topgunmobility.com.au

Customers Email Address: _____

Customer: _____

Model: BRUNO LITE Power Wheelchair

Address: _____

Serial Number: _____

Colour: _____

State: _____ Postcode: _____

Date of Sale: _____

Phone: _____

Type of Purchase: Consumer / Rental / Other

☐☐☐

SELLING RETAILER STAMP:

Customer Signature

Retailership Representative Signature



www.topgunmobility.com.au
