

AVENGER PRO

Zoom
Mobility
EASY LIVING



USER MANUAL

FOR YOUR RECORDS

Please fill in your Zoom Mobility Scooter's information below. This information will be useful in the event that you ever need to contact Zoom Mobility concerning your scooter.

Model _____ Serial Number _____

Date of Purchase _____ Invoice Number _____

Provider Name _____

Company _____

Address _____

City _____ State _____ Postcode _____

Thank you for purchasing your Zoom Mobility Scooter. We are honoured you have chosen Zoom Mobility for your mobility needs.

Intended Use:

The intended use of this device is to provide mobility to persons limited to a seated position that can operate an electric scooter.

**DISCLAIMER**

We ask that you read this manual completely before operating your new Zoom Mobility Scooter. Zoom Mobility is not and cannot be held responsible for any damage or injury incurred due to improper or unsafe use of the Zoom Mobility scooter.

Zoom Mobility specifically disclaims responsibility for any bodily injury or property damage that may occur during any use that does not comply with applicable federal, state, or local laws or ordinances.

Contents

INTRODUCTION.....	2
SPECIFICATIONS.....	4
FEATURES.....	5
SAFETY SYMBOLS.....	6
SAFETY OPERATIONAL INSTRUCTIONS.....	9
MODIFICATIONS.....	10
REMOVABLE PARTS.....	10
WEIGHT RESTRICTIONS.....	10
PRE-DRIVE SAFETY CHECK.....	11
TYRE INFLATION.....	11
INCLINE INFORMATION.....	12
CORNERING CONFIGURATION.....	15
BRAKING INFORMATION.....	15
OUTDOOR DRIVING.....	15
PUBLIC STREETS AND ROADS.....	16
STATIONARY OBSTICLES.....	16
PRECAUTIONS DURING WEATHER.....	16
HARDWARE PARAMETERS.....	17
PICTURE DISPLAY OVERALL STRUCTURE PROGRAM.....	19
REAR VIEW OF TILLER.....	20
FRONT VIEW OF TILLER.....	21

TOP FLAT COVER BUTTON	22
MULTIMEDIA BUTTONS	23
APPEARANCE DISPLAY.....	24
REAL SHOOTING DISPLAY.....	25
CHARACTERISTIC FUNCTION	30
TIME DISPLAY	30
LCD OPERATION.....	31
DAYTIME MODE OF LCD	31
NIGHT MODE OF LCD.....	31
BRIGHTNESS ADJUSTMENT LCD.....	31
LCD SETTINGS.....	32
VEHICLE LIVE WINDOW	37
MULTIMEDIA.....	38
BATTERY CHARGE	39
BATTERY SAFETY & PERFORMANCE MANAGEMENT	40
SPEED AND MILAGE	43
VELOCITY DISPLAY.....	43
MPH/KPH DISPLAY	43
SEAT HEATING.....	44
BLUETOOTH	45
LIGHTING SYSTEM.....	46
SOUND SYSTEM	47
REVERSING.....	48

DORMANCY FUNCTION.....	49
SCREEN PROJECTION	Error! Bookmark not defined.
ATMOSPHERE LAMP	51
UPGRADE MAINTENANCE.....	52
MAINTENANCE SCHEDULE.....	53
WARRANTY	56

INTRODUCTION

Congratulations on the purchase of your new Zoom Mobility Scooter. We are excited to provide you with one of our innovative Mobility Scooters. The Zoom Mobility scooter combines cutting edge technology with attractive designs that are also highly functional in today's world. We at Zoom Mobility know that you have chosen a scooter that will give you years of dependable operation and will enhance the quality of your life by providing you with the mobility to experience an active daily lifestyle.

Even though your new Zoom Mobility scooter is both user-friendly and designed for maximum manoeuvrability in even the tightest spaces, we ask that you please read, understand, and follow all the instructions and suggestions in this manual before you operate your scooter for the first time. The safe use of your new scooter is very important to us.

If you feel that you do not understand the instructions and suggestions presented in this user manual, or if, for any reason, you do not feel capable of performing the activities necessary to assemble, disassemble, operate, or maintain your Zoom Mobility scooter, please contact your local Zoom Mobility provider, or call Zoom Mobility.

Zoom Mobility cannot be held responsible for personal injury or property damage resulting from the unsafe or the improper use of any of our personal mobility products. Also, Zoom Mobility cannot be held responsible for personal injury or property damage resulting from attempts to follow instructions, suggestions, and guidelines presented in this user manual.

Our Research and Development Department, our Quality Control Department, and our Engineering Department have used the latest product specifications and the latest product design information to manufacture your Zoom Mobility scooter. Zoom Mobility reserves the right to implement changes into our product lines when those changes become desirable or necessary. If changes are implemented into our product line, there may be minor differences between the product you purchased and the illustrations and instructions in this owner's manual.

We at Zoom Mobility would appreciate hearing about the dependability of your Zoom Mobility and about the convenience of mobility it has provided for you. We would also appreciate hearing about the service you received from your local Zoom Mobility provider or representative. You can email sales@zoommobility.com.au

There are several situations, including some medical conditions, where the scooter user will need to practice operating the scooter in the presence of a trained attendant. A trained attendant can be defined as a family member or care professional specially trained in assisting a scooter user in various daily living activities.

As you begin using your scooter during daily activities you will probably encounter situations in which you will need some practice. Simply take your time and you will soon be in full and confident control as you manoeuvre through doorways, on and off elevators, up and down ramps, and over moderate terrain.

Please keep this manual at hand.

This manual may cover the use of various models, you will note that many of the operations and adjustments are similar and as such images may depict a different model to that which you have purchased.

For more information about our products and services or to send us your comments, email sales@topgunmobility.com.au

SPECIFICATIONS

Avenger Pro

Weight with Batteries	165kg
Weight W/O Batteries	115kg
Safe Working Load (SWL)	185kg (10° Gradient Maximum)
Colour Options	Ferrari Red Lamborghini Yellow
Operational Range	Up to 55km
Motor Power	950W
Controller	PG120A
Charger Size	24V 8A
Battery	12V 75Ah x 2 (lead acid)
Tyres	13" Pneumatic Front and Rear
Wheel Hub	Aluminium Alloy
Max Speed	10km/h
Max Climbing Grade	12° (subject to user weight & surrounding conditions)
Turning Radius	150cm
Free Wheel Mode	Yes
Ground Clearance	130cm
Electric Brake	Warner 24V
Drive System	24V Sealed Mid Transaxle
Dimensions (L x W x H)	140 x 68 x 130cm Height is Based on the Highest Point of the Seat Rest

FEATURES

- Heated Seat
- Rear Lockable Box
- One Push Start Button
- Rear View Mirror
- Free Wheeling Device
- Digital Display
- USB Charging
- Hazard Warning Lamp
- Mobile Phone Holder
- Drink Holder
- Portable Belongings Hook
- Right, Left and Upper Atmosphere Light
- Bluetooth (Music Capability)



SAFETY SYMBOLS



WARNING! An authorised supplier or technician must perform the initial setup of this scooter and must perform all the procedures in this manual.

The symbols below are used throughout this User's Manual and on the scooter to identify warnings and important information. It is very important for you to read and understand them.



WARNING! This indicates a potentially hazardous condition/situation. Failure to follow designated procedures can cause personal injury and/or equipment damage.

MANDATORY! These actions must be performed as specified. Failure to perform "Mandatory" actions can cause personal injury and/or equipment damage.



PROHIBITED! This indicates that the action is prohibited. These actions must NOT be performed at any time or under any circumstance. Performing a prohibited action can cause personal injury and/or equipment damage.



PLEASE NOTE! and strictly adhere to the following Safety Instructions. Additional Warnings and Notices are printed in this User's Manual; it is Imperative that you carefully read all chapters of this manual before operation. It is also advisable to refresh your memory by re-reading this manual periodically.



GET ACQUAINTED with your Mobility Scooter and its operational features before driving it. Drive slowly (speed limit dial set to MIN) until you get used to your scooter, its' various functions, safety features as well as it's braking capabilities and limitations.



PEDESTRIANS! Watch carefully for pedestrians and drive your Mobility Scooter accordingly. In crowded areas, always drive with the speed limit dial set to MIN. Drive only where permitted according to all applicable local laws. Be mindful of the width of your particular mobility scooter and take care not to hit people or objects around the vehicle.



NEVER remove any of the Mobility Scooter safety parts such as bumpers, plastic covers or emergency braking lever. Never remove any of the Warning Labels.



NEVER put your hands, fingers, feet or legs into any moving part or under any protective cover as moving parts and hot surfaces are generally secured under these covers



When adjusting (folding the seat back, adjusting armrest, moving seat forward/backward, adjusting tiller etc.) as well as when squeezing the throttle control lever, always take care that your hands and fingers are not trapped between any of the moving parts. When moving the tiller forward or backward, be careful not to trap your fingers in the mechanism.



LOAD RESTRICTIONS – The safe working load in the rear basket must not exceed 8kg. The safe working load in the front basket must not exceed 5kg. Your Zoom Mobility scooter is designed to carry ONE person only (unless a dual seat model has been purchased). Never operate it with an additional person on board, including carrying a child



TYRE INFLATION – Never inflate the tyres on your Mobility Scooter more than the manufacture's recommended pressure shown on the tyres and within this owner's manual.



STAIRS – Never use your Mobility Scooter on STAIRS. Do not try to go over obstacles that are more than the maximum recommended climbing grade and obstacle heights given in the specification sheets for your Mobility Scooter. When driving over an obstacle, always drive so that the front of the scooter is facing the obstacle.



If for any reason your Mobility Scooter does not stop when you release the throttle control lever or takes longer to stop than it should (3 meters on a level surface), turn the key switch to OFF and immediately contact your selling retailer.



WEATHER – Do not use your Mobility Scooter in heavy rain or extreme humidity, or at temperatures below -30°C (-22°F) or above +45°C (+113°F).



The seat weighs 21kg. Each battery weighs a minimum of 14kg. Be careful when lifting the seat and batteries. See instructions for lifting the seat and the batteries in the Maintenance Chapter. Always lift using your knees and legs, not your back.



BATTERIES – Only use batteries as recommended by an authorised retailer (lead acid maintenance-free sealed batteries or lithium depending on the model scooter you have purchased).



ACCIDENTS/DAMAGE – If your Mobility Scooter is involved in any kind of accident in which parts are damaged, you must arrange for a qualified technician to examine it before continuing use.

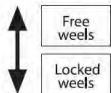


CHILDREN – Special Care must be taken to prevent children from operating your Mobility Scooter or riding as a passenger. Do not allow unsupervised children to play on or near your Mobility Scooter, especially when charging batteries.



Always drive carefully. Adjust your speed according to road conditions. When turning at high speed, your Mobility Scooter can become unstable. Before making sharp turns, reduce speed to a minimum to prevent roll-over.

CAUTION ON SLOPES !!



Your Mobility Scooter can go up slopes higher than the recommended safe slope. HOWEVER, do not drive on slopes with inclines you do not know. Always drive very slowly and do not drive on the side of such slopes. Before starting to drive, make sure your emergency brake operates correctly.

SAFETY OPERATIONAL INSTRUCTIONS

MANDATORY! Do not operate your new Mobility Scooter for the first time without reading and understanding this user manual completely.

Your Mobility Scooter is a state-of-the-art life-enhancement device designed to increase mobility. We provide an extensive range of products to best fit the individual needs of the user. Please be aware that the final selection and purchasing decision regarding the type of Mobility Scooter to be used is the responsibility of a user who can make such a decision and of his or her healthcare professional (i.e., medical doctor, physical therapist, etc.)

The contents of this manual are based on the expectation that a mobility device expert has properly fitted the appropriate model scooter to the user.

Healthcare Professionals and/or the authorized retailer to give instructions for the use of the product.

There are certain situations, including some medical conditions, where the user will need to practice operating the scooter in the presence of a trained attendant. A trained attendant can be defined as a family member or care professional specially trained in assisting a user in various daily living activities.

As you begin using your scooter during daily activities, you will probably encounter situations in which you will need some practice. Simply take your time and you will soon be in full and confident control as you maneuver through doorways, on and off elevators, up and down ramps, and over moderately rough terrain.

MODIFICATIONS

We have designed and engineered your Mobility Scooter to provide maximum mobility and utility. Under no circumstances should you modify, add, remove, or disable any feature, part, or function of your scooter.

WARNING! Do not modify your Mobility Scooter in any way not authorized by the manufacturer. Do not use accessories if they have not been tested or approved by the manufacturer.

REMOVABLE PARTS

WARNING! Do not attempt to lift or move your Mobility Scooter by any of its removable parts, including the armrests, seat, or shroud.

WEIGHT RESTRICTIONS

Your scooter is rated for a safe working load. Refer to Specification sheet for details.

Stay within the specified safe working load for your scooter. Exceeding the safe working load voids your warranty. We will not be held responsible for injuries and/or property damage resulting from failure to observe weight limitations.

WARNING! Do not carry passengers on your scooter as it may result in instability.

PRE-DRIVE SAFETY CHECK

Get to know the feel of your Mobility Scooter and its capabilities. We recommend that you perform a safety check before each use to make sure your scooter operates smoothly and safely. Perform the following inspections prior to using your scooter:

- Check for proper tyre inflation. Maintain but do not exceed the psi/bar/kPa air pressure rating indicated on each Tyre.
- Check all electrical connections. Make sure they are secure and not corroded.
- Check all harness connections. Make sure they are secured properly.
- Check the brakes.
- Check the battery charge.
- If you discover a problem, contact your authorised retailer for assistance.

TYRE INFLATION

Your scooter is equipped with pneumatic tyres. Check the Tyre pressure at least once a week. Proper inflation pressures will prolong the life of your tyres and help ensure smooth operation.

WARNING! It is critically important that the psi/bar/kPa air pressure indicated on each Tyre is always maintained. (Generally, between 25-30psi) Do not under-inflate or over-inflate your tyres. Under-inflation may result in loss of control, and over-inflation may burst the tyre. Failure to maintain the indicated pressure rating at all times may result in tyre and/or wheel failure.

WARNING! Inflate your scooter tyres from a regulated air source with an attached pressure gauge. Inflating your tyres from an unregulated air source could over-inflate them, resulting in a burst tyre.

INCLINE INFORMATION

More and more buildings have ramps with specified degrees of inclination, designed for easy and safe access. Some ramps may have turning switchbacks (180-degree turns) that require you to have good cornering skills on your scooter.

- Proceed with extreme caution as you approach the downgrade of a ramp or incline.
- Take wide turns with your scooter around any tight corners. If you do that, the scooter's rear wheels will follow a wide arc. Do not cut the corner short, and do not bump into or get hung up on any railing corners.
- When driving down a ramp, keep the scooter's speed adjustment set to the slowest speed setting to ensure a safely controlled descent.
- Avoid sudden stops and starts.

When driving up an incline, try to keep your scooter moving. If you must stop, start up again slowly, and then accelerate cautiously. When driving down an incline, set the speed switch to MIN and drive forward only. If your scooter starts to move down the incline faster than you want, allow it to come to a complete stop by releasing the throttle control lever, then push the throttle control lever forward slightly to ensure a safely controlled descent.

WARNING! When on any incline, never place the scooter in freewheel mode while seated on it or standing next to it.

WARNING! When climbing an incline, do not zigzag or drive up at an angle. Always drive your scooter straight up the incline. This greatly reduces the possibility of tipping over or a fall. Always exercise extreme caution when negotiating an incline.

WARNING! Do not drive your scooter across an incline or diagonally up or down an incline; if possible, do not stop while driving up or down an incline.

WARNING! Do not drive up or down a potentially hazardous incline (e.g., areas covered with snow, ice, cut grass, or wet leaves).

WARNING! Even though your scooter is capable of climbing slopes greater than those illustrated, do not, under any circumstances, exceed the incline guidelines or any other specifications presented in this manual. Doing so could cause your scooter to become unstable. Note that public accesses ramps are not subject to government regulation in all countries, and therefore do not necessarily have the same standard degree of slope. Other inclines may be natural or not designed specifically for scooters.

The figure on page 13 illustrates your scooters' stability and its ability to climb under various safe working loads and under controlled testing conditions.

These tests were conducted with the scooter seat in the highest position and in its farthest rearward position. Use this information as a guideline. Your scooters' ability to travel up inclines is affected by your weight, scooter speed, your angle of approach to the incline, and your scooter setup.

WARNING! Any attempt to go up or down a slope steeper than shown in Figure C may make your scooter unstable and cause it to tip.

WARNING! Never carry an oxygen tank weighing more than 15 lbs (6.8 kg). Never put more than 5 Kg (11 lbs) in the front basket or more than 8 Kg (17.6lbs) in the rear basket.



Figure B. Normal Driving Position



Figure C. Increased Stability Drive Position

CORNERING CONFIGURATION

Excessively high cornering speeds can result in tipping. Factors that affect the possibility of tipping include, but are not limited to, cornering speed, steering angle (how sharply you are turning), uneven road surfaces, inclined road surfaces, riding from an area of low traction to an area of high traction (such as passing from a grassy area to a paved area – especially at high speed while turning), and abrupt changes of direction.

WARNING! When cornering sharply, reduce your speed and maintain a stable centre of gravity. When using your scooter at higher speeds, do not corner sharply. This greatly reduces the possibility of a tip or fall. Always exercise your common sense when cornering.

BRAKING INFORMATION

Your scooter is equipped with two powerful braking systems:

- Regenerative: Uses electricity to rapidly slow the vehicle when the throttle control lever returns to the center/stop position.
- Park Brake: Activates automatically after regenerative braking slows the vehicle to a near stop, or when power is removed from the system for any reason.

OUTDOOR DRIVING

Your scooter is designed to provide optimum stability under normal driving conditions, on dry, level surfaces of concrete, tarmac or asphalt. However, we recognize that there will be times when you will encounter other surfaces. For this reason, your scooter is designed to perform well on packed soil, grass, and gravel. Feel free to use your scooter safely on lawns and in parks.

- Reduce your scooter speed when driving on uneven terrain and/or soft surfaces.
- Avoid tall grass that can become tangled in the running gear.
- Avoid loosely packed gravel and sand.

PUBLIC STREETS AND ROADS

WARNING! Do not operate your scooter on public streets or roadways. It may be difficult for traffic to see you when you are seated on your scooter. Obey all local pedestrian traffic rules. Wait until your path is clear of traffic, and then proceed with extreme caution.

STATIONARY OBSTICLES

WARNING! Do not drive near raised surfaces, unprotected ledges, and/or drop-offs (curbs, porches, stairs, etc.).

WARNING! Do not try to go up or down an obstacle that is too high.

WARNING! Do not try to go backward down any step, curb, or other obstacle.

PRECAUTIONS DURING WEATHER

Avoid exposing your scooter to extreme weather.

If you are suddenly caught up in rain, snow, severe cold or heat while operating your scooter, proceed to shelter at the earliest opportunity. Thoroughly dry your scooter before storing, charging, or operating it.



WARNING! Do not get your motor or any electrical parts wet! Do not drive through water or puddles as this can affect your scooters' electrical components, motor and transaxle.

PROHIBITED! Do not operate your scooter in heavy rain, snow, salt, mist/spray conditions, or on icy slippery surfaces, as this can have an adverse effect on the electrical system.

WARNING! Prolonged exposure to extreme hot or cold may affect the temperature of parts of the scooter, possibly resulting in burns. Exercise caution when using your scooter in extremely hot or cold conditions or when exposing your scooter to direct sunlight for prolonged periods of time.

HARDWARE PARAMETERS

01 – LCD PANEL MODULE

1. Screen Size: 6.2 inches.
2. Resolution: 80 x 48cm.
3. Backlight: LED – 600cm/m2.
4. Cover Plate: Superhard polymer glass.

02 – DISPLAY PANEL

1. Integrated 16MB flash memory.
2. Integrated FM radio system.
3. Integrated Bluetooth call and Bluetooth music module.
4. Integrated mobile phone screen projection module.
5. Integrate local music and video playback modules.

03 – APPEARANCE

1. Automotive grade high frequency master control chip.
2. Arrangement of electronic components with high integration.
3. High anti-interference ability.
4. Multi – module cooperative processing is possible.

05 - TILLER ANGLE ADJUSTMENT

1. Ergonomic pressing handle
2. High strength sheet metal materials.
3. Self-Locking gas spring adjustment.

06 - OPERATING LEVER

1. Red and green lever, green = forward, red = reverse, let go and stop.
2. It has two operation modes: four fingers and a thumb.
3. TOCOS sensor imported from Japan.
4. Rotary spring with high torque and long service life, bid farewell to the risk of jamming.

04 – LAMPS AND LANTERNS

1. Integrated lamps for daytime running lights and turn signals.
2. White any time running lights increase daytime driving safety.
3. Turning streamer lights to be more eye catching.
4. Turn signal is given priority, and the brightness of daytime running lights is automatically adjusted.

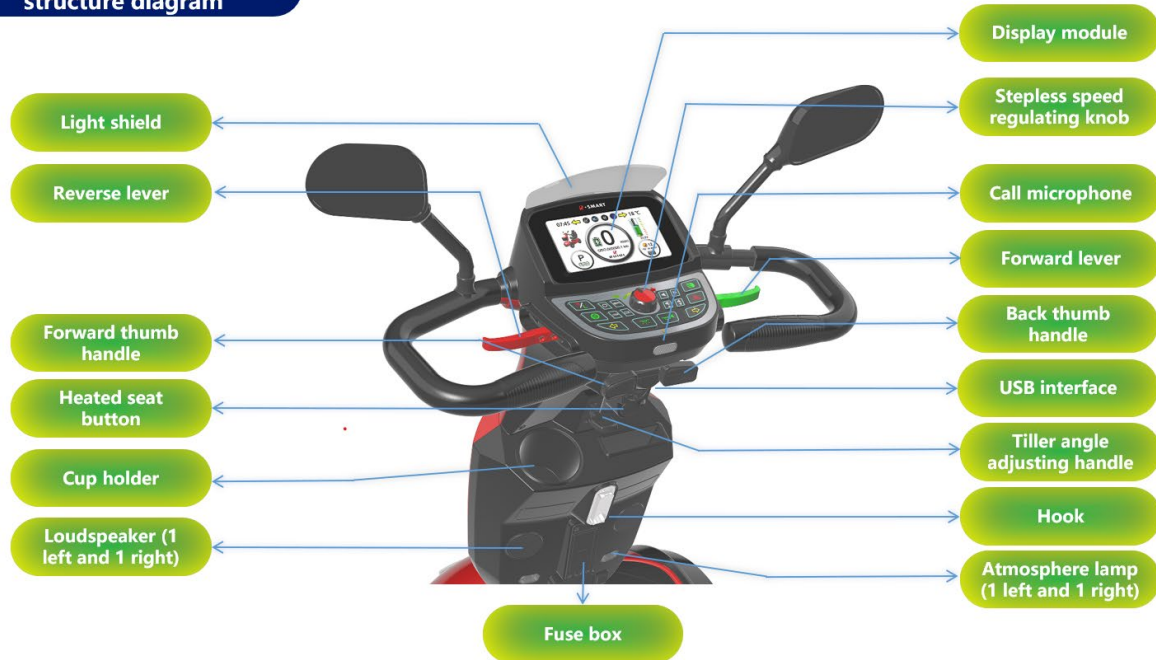
07 – REAR VIEW MIRROR

1. High strength aluminium alloy bracket.
2. Super wide-angle visual range.
3. Large angle adjustment.
4. The workmanship is more delicate.

PICTURE DISPLAY OVERALL STRUCTURE PROGRAM



Picture display-Overall structure diagram



REAR VIEW OF TILLER



Picture display-Rear view of tiller



Main brand LOGO

Brake handle mounting position

Right turn signal +
daytime running light

Optional color matching
lamp mounting cover



Rear view mirror

ABS injection molded tiller front cover

Left turn signal +
daytime running light

Reserved basket
mounting hole

Reserved basket
mounting hole

TOP FLAT COVER BUTTON



Picture Display-Top Flat Cover Button



MULTIMEDIA BUTTONS



Picture display-multimedia
buttons



APPEARANCE DISPLAY

5. Running water turn signal + daytime running lamp



6. Chrome-plated speaker output cover



7. Portable belongings hook



8. Detail drawing



Appearance

REAL SHOOTING DISPLAY

Tiller top cover effect



1. Running water turn signal.
2. White daytime running lights.



1. Optional manual key and one-button start.
2. After the one-button start button is started, the button turns into blue backlight, and when pressed, the backlight will change to red.
3. When the induction key is close to the scooter within 1 meter, press the start button, and the vehicle will Automatically unlock and turn into an electrified state.
4. After the scooter turns off the power supply, it automatically turns into a locked state.



1. U disk playback interface + USB mobile phone fast charging interface.
2. Seat heating button.



1. After pressing the tiller adjusting handle, pull the tiller to adjust to the appropriate driving angle.
2. After releasing the tiller adjusting handle, tiller will be locked to the current position.



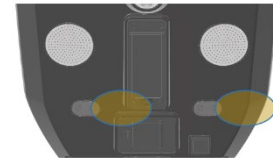
1. Press the “push” position at the bottom, the hook will pop up, and the article will be hung on the hook.
2. Release the hook and it will automatic close to the hidden position.
3. The maximum safe working load of the storage hook is 2.5kg.



Scooter fuse box, built in main control, headlights, left turn signal, right turn signal, taillights, charging system fuse.



1. Dual stereo speaker + chrome-plated pronunciation cover.
2. Two footstep lighting atmosphere lamps.



CHARACTERISTIC FUNCTION

TIME DISPLAY

1. The time and date have power-off memory function, which can save and continue to travel when power-off transportation, battery replacement or fuse accident is blown, and there is no need to adjust the time and date after power on again.
2. The methos of setting the time is:
 - Press the Setup/Return key for 3 seconds to enter the Setup menu.
 - Move the cursor down to the system settings and click OK key.
 - Move the cursor down to the local setting and click OK key.
 - Move the cursor down to the time and date setting and click OK key.
 - Set year, month, day, hour, minute and second in turn, and press OK key to confirm when each setting is completed.
 - After setup, press the setup/return key for a long time to return to the main page.

LCD OPERATION

DAYTIME MODE OF LCD

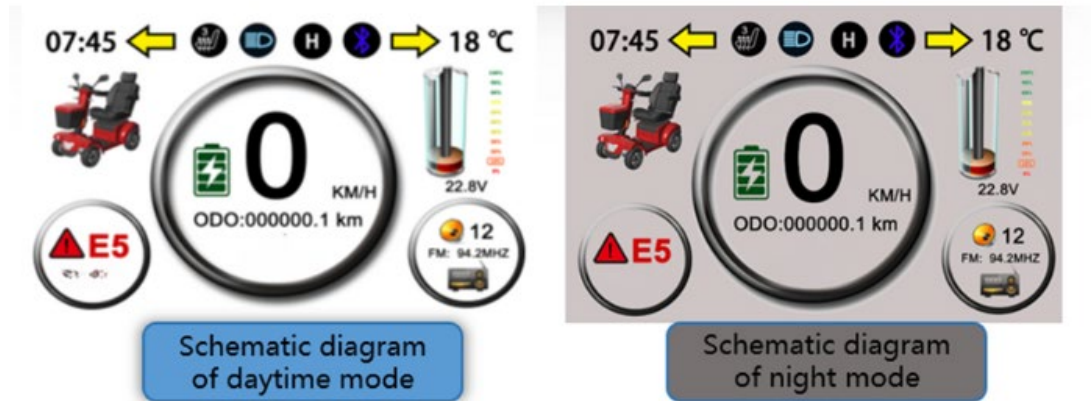
The standard mode of scooter instrument display, that is, the display mode of scooter instrument when driving during the day, mainly acts under the condition of bright external light.

NIGHT MODE OF LCD

When riding a scooter at night, because the ambient brightness is relatively dark, the instrument brightness is too high, which will cause dazzling. Therefore, when the headlights of the scooter are turned on, the instrument will be in night mode, and the brightness will decrease at this time, so as to ensure that the driver can clearly observe the road conditions and ensure driving safely.

BRIGHTNESS ADJUSTMENT LCD

According to your own needs, you can change the daytime brightness and night brightness values in the settings to ensure the best viewing effect of the instrument and driving safely.



LCD SETTINGS

1. Freewheel Setting.

- Click freewheel button once, it will go to freewheel mode, gears show N, and click freewheel button again, it will go to driving mode, gear will show P.
- Press freewheel button and hold it, it will go to freewheel mode, gear will show N, release the button, it will go to driving mode, gear will show P, options-press settings/back button to return to main interface.

2. Speed and Mileage.

- Press and hold the settings/back button to enter the settings interface -factory settings-speed mode-select reed switch/voltage press OK to confirm-press setting/back to return to the main interface.

3. Sound Prompt for the Reversing to Buzzer or Stereo Prompt Sound.

- Long press the setting/black button to go to the setting menu, enter vehicle settings, reverse alert sound type setting, use the arrow to switch options, press OK button to save the setting, select reversing warning sound effect of the buzzer. Select reversing warning sound to the effect of a stereo alert sound effect.

4. Sound Prompt Setting for the Indicator.

- Long press the settings/black button to enter the settings interface, use arrow key to switch to prompt sound setting of the indicator, select option and press OK button to save the setting. When it is set to on, there will be a prompt sound when turning on the indicator.

5. Turning Alarm Type

- Long press the settings/black button to enter the settings menu, use the arrow keys to go to vehicle settings, select turning alarm type setting, select relative alarm type and press OK to save the settings. Effect of prompt sound, effect of stereo prompt sound, press settings/ back to return to the main interface.

6. Setting of the Brake Lights

- Long press the settings/back to the menu, enter the vehicle settings, select brake light setting, select on/off, and press OK to save the setting. When it is set to on, brake lights will be highlighted when decelerating or braking, when it is set to off, there will be no change of the brake lights when decelerating or braking, press

settings to return to the main interface.

7. Parking Light Settings

- Setting of whether the parking lights are highlighted when scooter stops: long press the settings/back to the setting menu, use the arrow key to enter vehicle settings, select parking light setting, select turn on or turn off of parking light function, press ok to save the settings, when it is set to on, the parking light will keep highlighted when scooter stops, when it is set to off, parking light will stay off when the scooter stops, press setting/back to return to the main interface.

8. Charging Sleep Setting

- Setting about LCD is on or off when the scooter is charging, long press the settings/back to the setting menu, use the arrow key to access the vehicle settings, select charging sleep setting, select close/open about charging sleep function, press ok to save the setting, when charging sleep is set to on, the screen will be off when scooter is charging, when charging sleep is set to off, charging logo on the screen is on when it's charging, press setting/back to return to the main interface.

9. Atmosphere Lamp Setting

- Set the brightness of the atmosphere lamp to be adjusted automatic or manual, long press the settings/back to the setting menu, use the arrow key to enter the vehicle settings, select the atmosphere lamp setting, select automatic or manual, press ok to save settings, press setting/back to return to the main interface.

10. Fault Alarm Setting

- Set fault alarm to be on/off, long press the settings/back to the setting menu, use the arrow key to vehicle settings, select the fault alarm setting, select on/off, press ok to save the settings, press setting/back to return to the main interface.

11. Fault Alarm Type

- Set fault alarm to be buzzer or stereo, long press the settings/back to the setting menu, entering the vehicle settings, select fault alarm type setting, select stereo or buzzer, press ok to save setting, press setting/back to return to the main interface.

12. Follow Me Home Settings

- Long press the settings/back to the setting menu, entering the vehicle settings, select follow me home settings, select delay time for the headlight being off, selecting number 0 means to turn off this function, press OK to save the settings, press setting/back to return to the main interface.

13. Video Prohibited While driving setting.

- Long press the settings/back to the setting menu, entering the vehicle settings, select no video while driving settings, select on/off, press OK to save the settings, press setting/back to return to the main interface.

14. Parking Sensor Delay Settings

- Long press the settings/back to the setting menu, entering the vehicle settings, select parking sensor delay setting, select requested time, press OK to save the setting, press setting/back to return to the main interface.

15. Auto Sleep Setting

- Long press the settings/back to the setting menu, entering the vehicle settings, select auto sleep setting, select requested time, press OK to save the settings, press setting/back to return to the main interface.

16. Automatic flash setting while reversing.

- Long press the settings/back to the setting menu, entering the vehicle settings, select reversing alarm, select close/open and press OK to save the setting, press setting/back to return to the main interface.

17. Daytime brightness setting

- Press and hold the Settings/Back button to enter the settings interface, entering the system setting, display setting, select daytime brightness setting, select from 1~10, press OK to save the settings, press setting/back to return to the main interface.

18. Night brightness setting

- Press and hold the Settings/Back button to enter the settings interface, entering the system setting, select display setting, select daytime brightness setting, select from 1~10, press OK to save the settings, press setting/back to return to the main interface.

19. Language Setting

- Press and hold the Settings/Back button to enter the settings interface, entering the system setting, select display setting, select language setting, select the language you need, press OK to save the settings, press setting/back to return to the main interface.

20. Startup animation setting

- Press and hold the Settings/Back button to enter the settings interface, Enter the system setting-display setting, select startup animation setting, select startup animation open/close, press OK to save the setting, press Settings/Back button to return main interface, effect of closing the startup animation, effect of open startup animation.

21. Theme Setting

- Press and hold the Settings/Back button to enter the settings interface, Enter the system setting-display setting, select the theme setting, select the theme-press OK button to confirm.

22. Logo Setting

- Press and hold the Settings/Back button to enter the settings interface, Enter the system setting-display setting, logo setting, select open/close.

23. System Prompt Sound Volume

- Press and hold the Settings/Back button to enter the settings interface, Enter the system setting-sound setting, system volume-select.

24. Bluetooth Phone Volume.

- Press and hold the Settings/Back button to enter the settings interface, Enter the system setting-sound setting, select Bluetooth phone-select.

25. Button Tone Volume

- Press and hold the Settings/Back button to enter the settings interface, Enter the system setting-sound setting, select button tone-select.

26. Multimedia Sound

- Press and hold the Settings/Back button to enter the settings interface, Enter the system setting-sound setting, select multimedia sound-select.

27. Local Setting

- Press and hold the Settings/Back button to enter the settings interface-local setting.

28. About this mac

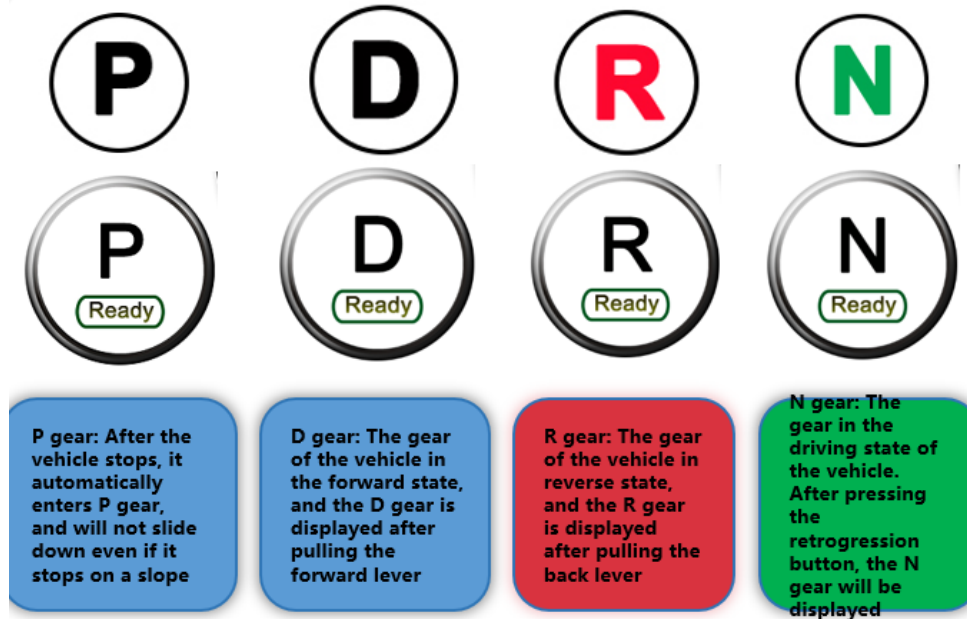
- Press and hold the Settings/Back button to enter the settings interface-local setting-about this mac.

29. Time and date setting.

- Press and hold the Settings/Back button to enter the settings interface, select local setting, select time and date-set.

VEHICLE LIVE WINDOW

1. When the vehicle is in normal condition, the live window displays “green ready” and the current vehicle gear.
2. When the vehicle has a fault, the live window displays “red warning” sign, and displays fault code and fault information within 1 second.
3. When there is a fault in the vehicle, the sound system will send out different frequency prompt tones according to the fault code and end the prompt tones after sounding for 3 cycles.



MULTIMEDIA

1. The maximum USB2.0 USB flash drive multimedia content is played. The USB interface near the indicator light (left side) is the USB flash drive reading interface, and the USB interface on the other side is the mobile phone charging interface, which supports USB fast charging QC3.0 charging protocol, and the maximum charging power supports 36W.
2. Support the maximum 64GB memory card to play multimedia content. The memory card interface is set under the rudder stock and covered with a decorative cover. When installing the memory card, insert the memory card into the memory card interface in the correct direction and push it in slightly. After hearing the click sound, the memory card will no longer pop up, indicating that the memory card has been installed intact.
3. The Bluetooth name is scooter. After connecting with the mobile phone, the audio of the mobile phone will be transmitted to the 6.2 multimedia systems for playing.
4. Support MP4 format video playback, and other formats need to be converted to MP4 format playback.
5. 6.2 The radio uses car grade radio chips and is equipped with an active amplification antenna for clearer sound quality.



BATTERY CHARGE

1. The 1st to 3rd grids is red, which means that the power is nearly exhausted.
2. The 4th to 7th grids is yellow, which means medium power consumption.
3. The 8th to 10th grids is green, which means abundant electricity.
4. After the charger is connected to the scooter, the charger insertion icon lights up.
5. After the charger is inserted, the starting position of the battery grid jumping is the voltage analogue battery grid when the battery is charged.
6. When the battery is charged to 28.1 V, the number of power grid stops beating, and the indicator lamp of the charger is used as the basis for full power.
7. The electric quantity display supports two modes: directly measuring battery voltage and reading controller voltage.
8. When there is a fault in the vehicle, the electric quantity is displayed as the number of battery voltage calculation cells.



**Battery
charge**



**Charger
insertion
icon**

BATTERY SAFETY & PERFORMANCE MANAGEMENT

Battery Installation

- Always have batteries installed by a qualified mobility scooter or wheelchair technician.
- Always fully charge batteries before first use.
- Always follow the installation and start-up instructions provided by Top Gun Mobility.
- Most mobility scooters and powerchairs operate using two batteries connected in a 24-volt series configuration.
- Never mix different battery brands, technologies, or batteries with mismatched date codes.
- Never combine Gel and AGM batteries in the same unit.

Battery Break-In Period

- Deep cycling is a process used by active powerchair users that cycle their batteries daily. This requires a unique battery design that will sometimes compromise initial capacity in return for longer battery life.
- Gel battery performance improves once the battery has been cycled (discharged and recharged) 15 - 20 times.
- This break-in period is necessary to fully activate the battery for maximum performance and longevity.
- Your range and running time of your mobility device could initially increase with use.

Charge Your Battery Daily

- The charger supplied with your mobility device is designed to fully recharge the batteries overnight. Modern smart chargers are voltage-regulated and automatically switch off once charging is complete, so overcharging is not a concern.

- Sealed VRLA GEL and AGM batteries do not suffer from the capacity-reducing “memory effect” associated with some other battery types.

Charging Guidelines

- Always use the automatic charger supplied or recommended by Top Gun Mobility.
- Never use an automotive or wet-cell charger on Sealed VRLA Gel or AGM batteries, as this can cause permanent damage.
- Battery cycle life is directly affected by depth of discharge – the deeper the discharge, the shorter the expected lifespan.
- Always avoid ultra-deep discharges.
- Never allow batteries to become completely flat.
- Never leave batteries in a low state of charge for extended periods. Recharge discharge batteries as soon as possible.
- Avoid repeatedly operating batteries at a low state of charge without fully recharging them on a regular basis.

Correct Battery Storage

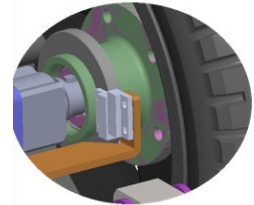
- Always store batteries in a fully charge condition.
- Inspect stored batteries monthly and recharge if required.
- Fully charged Sealed VRLA Gel and AGM batteries can retain their charge for up to 6 months; however, they must be recharged before use.
- If storing a powerchair or scooter for longer than two weeks, fully charge the batteries and then disconnect them during the storage period.
- Avoid exposing batteries to extreme heat or cold while in storage.

- Sealed VRLA Gel and AGM batteries are maintenance free and do not require watering.

SPEED AND MILAGE

VELOCITY DISPLAY

1. Support the motor phase line voltage speed measurement mode, measure the vehicle speed according to the motor voltage, and adjust the measurement parameters in the factory setting menu.
2. Support the speed sensor speed measurement mode, install the speed sensor on the rear wheel, which makes the measurement more accurate, and set different tyre diameters in the factory setting menu, which ensures the speed display to be more accurate.
3. Support the switching between metric and English units.



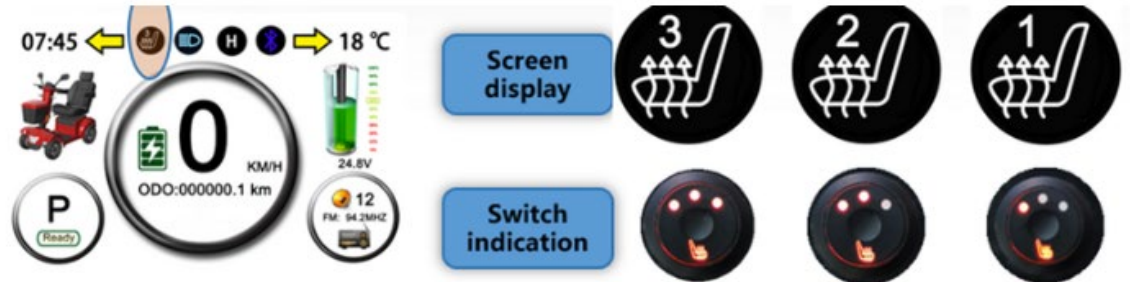
MPH/KPH DISPLAY

1. Support the switching between metric and English units.
2. The maintenance time and mileage can be set according to the user's needs, and they can be counted together. The first item shall prevail. After reaching the set value, the maintenance symbol will light up.



SEAT HEATING

1. Seat heating switch: three gear heating mode, with the indicator light gear indication and night running light indication, the user can clearly distinguish the switch position and gear in time at night.
2. Seat heating control module: It has a constant temperature control system, which can accurately control the seat surface temperature and ensure vehicle safety on the premises of being more comfortable and humanised.
3. Communicate with the vehicle volume control system in real time, which can monitor the working state of the temperature sensor and heating system in the seat in real time, display the fault on the instrument at the first time, and stop heating.
4. The heating temperatures of the third gear seats are 35°C in the first gear, 50°C in the second gear and 65°C in the third gear. When the seat heating function is turned on, the default gear 3rd gear (65°C), and one gear is adjusted every time the seat heating button is pressed. For example, if you press the seat heating button once, the screen will show that the seat heating button indicator lights up three times.



BLUETOOTH

Bluetooth Music

1. The Bluetooth device name is “scooter”.
2. The pairing code is “0000”.
3. After the Bluetooth connection is successful, the Bluetooth icon lights up.
4. When the Bluetooth phone calls in, the Bluetooth phone icon in the meter lights up.
5. Click “OK” key to answer the phone “Set/Return” key to reject or hang up the phone.



LIGHTING SYSTEM

- Steering + daytime running lights integration.
 - Smooth far and near bright light system.
 - “Accompany me home” function.
 - Penetrating brake lamp.
 - Parking lamp.
 - Warning function for backup up.
1. After opening the electric lock, the daytime running lights come on and the vehicle is in working condition.
 2. When the left turn signal or the right turn signal is turned on, the daytime running light automatically turns off, and the yellow light flashes. After turning off the turn signal, the daytime running light resumes white light.
 3. When the headlights are turned on, the daytime running lights turn to a low light state.
 4. Support the high beam module and turn on the high beam in the factory setting.
 5. Accompany me home function: When the headlights are on, after the electric door is turned off, the headlights will remain on and automatically turn off after the set delay time.
 6. Brake light function: When the scooter decelerates or stops, the brake light will be in high brightness mode to warn rear vehicles to pay attention to safety.
 7. Stop light function: After the vehicle stops, the brake light is highlighted to ensure other drivers to drive safely.
 8. Revers warning function: When the scooter reverses, the reversing lights will light up on the vehicles equipped with reversing lights, and the double flashing lights can be automatically turned on and off according to the set parameters. Th reversing warning system also supports the installation of the reversing radar system.

SOUND SYSTEM

- New two channel stereo system.
 - New sound effect system.
 - New fault warning tone.
 - New turning tone.
1. The new two channel multimedia sound system is equipped with two-inch 10W full frequency multimedia speakers, which have a fuller and more vivid sound effect.
 2. Added five sound effects: Standard, pop, jazz, bass, and rock.
 3. Add stereo prompt fault tone and support buzzer fault tone, this can be modified in settings.
 4. Add stereo reversing prompt tone and support buzzer prompt tone, which can be modified in settings.
 5. Add stereo turning prompt tone and support buzzer prompt.



REVERSING

- Reserved reversing radar system interface.
 - Reversing signal delay.
 - Reversing lamp function.
 - Automatic double flashing lights for reversing.
1. **Reserved reversing radar system interface:** Reserved 24V reversing radar module installation interface. After the reversing radar module is installed, the driver will be reminded of the distance between the scooter and the obstacle by means of a buzzer sounding. The buzzer prompts the sound interval for a long time, indicating that the distance between the scooter and the obstacle exceeds 1.5 meters, and between 1.5 meters and 0.5 meters, the obvious interval time gradually becomes shorter. After less than 0.5 meters, the buzzer continues to sound.
 2. **Reversing signal delay:** For scooter equipped with radar module, to avoid the problem of untimely radar response when frequently advancing and reversing in narrow road sections, 6.2 control system specially adds reversing signal delay stop function, which can set the delay time according to actual needs to ensure driving safely.
 3. **Reversing lamp function:** 6.2 The control system supports the reversing lamp interface. When reversing, the reversing lamp at the rear of the scooter lights up to remind the rear traffic participants to pay attention to safety.
 4. **Automatic double flashing lights when reversing:** The control system supports automatic double flashing lights (hazard warning lights) when reversing to remind other traffic participants to pay attention to safety.
 5. **Automatic double flashing lights when reversing:** The control system supports automatic double flashing lights (hazard warning lights) when reversing to remind other traffic participants to pay attention to safety.

DORMANCY FUNCTION

- Automatic sleep
 - Charging screen
1. **Automatic sleep function:** After the automatic sleep function is turned on, the scooter will automatically rest the screen after reaching the set time without any key operation and failure in P gear, so as to save the power of the scooter. The screen can be awakened by pressing any key of the keyboard or starting the scooter. This function can be changed on or off in vehicle settings.
 2. **Charging the screen function:** After the charger is inserted, the scooter will be in the state of charging and no riding. If the charging screen function is turned on, the screen display will be turned off after the charger is inserted. This function can be changed on or off in vehicle settings.

BLUETOOTH & RADIO

- APP Bluetooth music
- APP radio broadcast.
- APP listening to books.

1. **APP Bluetooth music:** When using the music function in the App, you need to connect a Bluetooth device named “scooter”. At this time the music will be transmitted to the scooter speaker system, and it is supported to use the “up” and “down”, “left” and “right” buttons to adjust the volume and switch tracks.
2. **APP radio station and listening to books:** When using the network radio station and listening to books in the APP, you need to connect the Bluetooth device named “scooter” and select the radio station or audio books according to your own preferences.

ATMOSPHERE LAMP

- Atmosphere lamps on/off
 - Atmosphere lamp brightness adjustment
1. **Atmosphere lamp on/off:** Turn on and off the atmosphere lamp by turning the key of the atmosphere lamp, so as to facilitate the diver to get on and off the scooter lighting and take and put the items in the storage box when driving.
 2. **Setting of the atmosphere lamp adjustment:** Press the setting key for 3 seconds, enter the setting menu, select the setting of vehicle settings automatic atmosphere lamp adjustment, and modify whether to turn on the automatic atmosphere lamp adjustment mode.
 3. **Turn on the automatic adjustment of atmosphere lamp:** After turning off the automatic adjustment of the atmosphere lamp, press the key to turn on the atmosphere lamp once for low light mode, press the atmosphere lamp again for low light mode, and press the atmosphere lamp switch for a long time to turn off the atmosphere lamp.

UPGRADE MAINTENANCE

- **Display Panel** – Upgrade firmware through USB interface: It can upgrade the display system and multimedia system more conveniently.
- **Main Control Board** – Upgrade through peripheral interface: Solve the problem that the shell needs to be removed for upgrading in the past.
- **Keyboard** – More humanised design is added to the keyboard: Add backlight and humanised indication.
- **Product Upgrade** – Customisation: Provide a different upgrade solution according to different customer needs.
- **Reserved vehicle networking module interface** – Cooperate with the development of mobile APP to realise real time grasp of a car condition, fault diagnosis, remote help, remote guidance, remote unlocking and locking, car search.
- **Reserved smart lock module interface** – With the addition of intelligent lock module, the scooter can be unlocked more simply, and the welcome function is supported. The auxiliary lighting near the vehicle lights up to ensure the safety of getting on and off the bus.
- **Reserved SOS emergency call interface** – SOS module supports electronic fence, one-button remote call for help, emergency telephone answering, remote viewing of the vehicle position and remote vehicle locking.
- **Reserved loudspeaker interface with high volume** – This system is only effective for pressing horn switch operation, which is designed for some users' needs.

MAINTENANCE SCHEDULE

Although your scooter requires very little maintenance, do not neglect it. When performing maintenance procedures on your scooter, make sure that it is parked on a level surface and that the key is not inserted.

DAILY

- Check brake effectiveness before you drive.
- Recharge batteries fully every night.

WEEKLY/FORTNIGHTLY

- Check tyre pressure. The pressure should be between 30-35 psi.
- Clean seat upholstery, plastic body and covers. To avoid electrical failure, do not spray water directly into your unit.
- Use a damp clean rag to clean all parts.
- Check and tighten the throttle lever attachment screws.

MONTHLY

- Check battery condition. Clean terminals if necessary.
- Check all electrical wire connectors to eliminate loose connection.
- Tighten all exposed bolts and nuts.
- Check wheel bearings by spinning tyres and checking for free rotation.

EVERY TWELVE MONTHS

- Visit your retailer and have a trained technician comprehensively service your scooter
- Under normal use, batteries should last between 2-3 years. These should be replaced by your retailer.

The following table provides troubleshooting and repair instructions for problems that may be encountered when operating your Mobility Scooter, as well as the best way to correct the issue.

Symptom	Probable Cause	Remedy
Flat tyre and unstable driving	➤ Low Air Pressure ➤ Puncture	➤ Pump tyre to normal pressure ➤ Repair/Replace tyre
Key is turned ON but ON Light does not come on	➤ Main fuse blown ➤ Electrical fault	➤ Replace fuse NB: Do not replace a fuse more than twice. If the symptom is recurring call for technical support
Scooter does not move when you squeeze throttle control lever	➤ Key switch is OFF ➤ Charger is connected to charging socket ➤ Control System failure	➤ Turn key Switch to ON position ➤ Disconnect Charger ➤ Call for technical support
Intermittent driving	➤ Battery capacity is low ➤ Faulty connections ➤ Faulty battery	➤ Charge batteries for at least 18hrs ➤ Remove batter cover and check battery connection. If terminals are corroded, clean them with a damp cloth ➤ If red LED's are still on, contact your local retailer for a replacement battery

Turning Indicators inoperative	➤ Faulty LED light board	➤ Replace LED Board NB: refer to your retailer for support
Headlight/Taillights not lit	➤ Burnt out LED bulb	➤ Replace LED bulb
Reduced Speed on uphill grades or heavy loads	➤ Controller becoming overheated	➤ STOP driving and allow your controller to cool down
Takes longer than 3mtrs to STOP	➤ Controller is faulty or out of adjustment	➤ Call for Technical Support

Remember! Contact your retailer at any time for further support.

Replacement Parts

Most replacement parts can be purchased by your selling retailer.

WARRANTY

Consumer Warranty

Scooters

Note: You are required to show any proof of service history on your scooter at the time of claiming warranty.

Zoom Mobility has provided information throughout the owner's manual in regard to proper usage and care of your scooter. Failure to adhere to this information will void the warranty of the scooter, its parts and the batteries supplied by Zoom Mobility.

The following warranty is granted only to the INITIAL Consumer who has purchased our product and commences on the Date of Purchase by the Consumer from an Authorized Zoom Mobility' Provider. The Consumer must have proof of purchase from Zoom Mobility or the authorised scooter provider to receive service.

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 Zoom Mobility retailer, you may be liable for any labour charges, parts will still be supplied free of charge. You will be liable for all labour and parts costs should the repairs not be covered by warranty.

The warranty covers the following scooter models unless otherwise noted:

Avenger Pro

2-Years Warranty:

For the life of the scooter, from the date of purchase from an authorized Zoom Mobility' retailer, in the event of defective materials or workmanship, Zoom Mobility will repair or replace at our option any of the following structural frame components found to be defective by an authorized Zoom Mobility representative:

- ◆ Steel Frame

1-Year Warranty:

For the period of one year from the date of purchase, in the event of defective materials or workmanship, Zoom Mobility will repair or replace at our option with any new or reconditioned components any of the following components found to be defective by an authorized Zoom Mobility representative:

- ◆ Controller
- ◆ Electric Components and Charger

6-Month Warranty

Batteries hold a 6-month warranty from date of purchase.

Note: An increase in operating noise of the transaxle DOES NOT constitute a defect. With normal wear and tear, operating noise is expected to increase.

Note: While charging batteries, it is normal for the battery charger to heat up. Heat coming from the battery charger does not constitute a defect.

Warranty Exclusions:

Zoom Mobility does not provide warranty on any of the following items which may require replacement due to the normal wear and tear of day-to-day usage:

- | | | |
|-----------------------------|------------------------------|---|
| ◆ Motor Brushes | ◆ Wheel Tyres and Tubes | ◆ Arm Pads and Armrests |
| ◆ Seat Cushion & Upholstery | ◆ Bulbs/Fuses | ◆ Batteries & Consumable Parts |
| ◆ T Tiller Cover | ◆ Seat Swivel Mechanism | ◆ Brake Pads |
| ◆ Bearings and Bushings | ◆ Components (excludes body) | ◆ Plastic Shrouds, Plastic Components (excludes body) |
| ◆ Rubber Components | | |

Items not listed are covered at the discretion of Zoom Mobility. Any accessories, standard or optional, supplied by Zoom Mobility, are covered for a period of one year from the date of purchase with the unit.

This warranty also excludes for the following:

- ◆ Loss or theft of components (i.e.: keys, baskets, etc.)
- ◆ Damage caused by:
 - Battery fluid spillage or leakage.
 - Abuse, misuse, accident, or negligence.
 - Improper operation, maintenance, or storage.
 - Commercial use or use other than normal.
 - Exceeding the specified safe working load of the unit.
 - Repairs and/or modifications made to any part without the specific consent of Zoom Mobility.
 - Accessories other than those supplied or approved by Zoom Mobility.
 - Failure to adhere to the product instructions.

- Acts of Nature, such as lightning strikes, cyclones, earthquakes, etc.
- Circumstances beyond the control of Zoom Mobility.
- ◆ ANY PARTS ALTERED, MODIFIED OR REPAIRED BY AN UNAUTHORIZED PERSON.

As mentioned above, 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 Zoom Mobility or its agent cannot be held responsible. This warranty does not include service calls or external bolt on components such as a canopy or canopy framework. 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 retailer's discretion only and separate to Zoom Mobility's warranty terms and conditions.

Warranty Service Period:

The service intervals are every 500klm or every twelve (12) months from date of purchase, whichever occurs first. We recommend using a Zoom Mobility Service Provider. Proof of annual service (paid invoice receipts) must be kept and provided upon any warranty claim. This warranty will be void if annual servicing is not carried out.

Service Checks and Warranty Service:

Warranty service can be performed by an authorised Zoom Mobility Provider / Local Mobility Scooter Technician. Please contact your authorised Zoom Mobility Provider for advice on the current cost affecting the service visit. Zoom Mobility reserves the right to replace warranted part(s) with refurbished or new part(s) at our discretion. All labour charges, service calls, transportation costs or any other charge(s) associated with the installation of any warranted part(s) are the responsibility of the consumer. Warranty is for the replacement of the parts only and does not include freight for the replacement parts. Consumers are not to return any item(s) to Zoom Mobility without prior written authorization. Any damages incurred while warranted part(s) are in transport are the sole responsibility of the consumer.

Commercial Use:

Any Zoom 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 2 (two) year warranty. All other conditions in this warranty will apply.

There is no other express warranty.

Implied warranties including those of merchantability and fitness for a particular purpose are excluded. Liabilities for consequential damages are excluded. This warranty gives you specific rights and you may also have other rights which may vary from state to state.



Technical Service, please scan the following QR code.

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User Manual & Warranty Booklet 2023