

Luggie[®]

FR168-4 (IT)

~Smart Fold, Easy Go~



USERS INSTRUCTION MANUAL



FOREWORD

Please read and follow all instructions in this Users Instruction Manual before attempting to operate your **Luggie** Scooter for the first time. If there is anything in this manual that you do not understand, or if you require additional assistance for the operation please, contact your Authorised **Luggie** Agent.

Using your Luggie product safely depends upon your diligence in following the warnings, cautions and instructions in this manual. Using your Luggie Scooter safely also depends upon your good judgement and/or common sense, as well as that of your Provider, Carer or Health Professional.

Always think safety!



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INTRODUCTION

Congratulations on the purchase of your **Luggie** .

Please read this User Instruction Manual carefully before you attempt to operate your Scooter. Your User Instruction Manual will assist you to get the most from your machine.

This manual contains important information regarding the safe operation and maintenance of your scooter. Before beginning to use your Scooter, make sure you completely read and understand all instructions thoroughly. Please observe the "Rules for safe use" and the Safety Instructions outlined on page 4.5.6.9.10.13 of this owner's manual. If you have any queries concerning operation or maintenance, consult your authorised Luggie dealer.

Please keep in mind that the operator of the Scooter is responsible for accidents or hazards occurring to other people or their property.

Your **Luggie** has numerous features not found on other power Scooters. With proper care and maintenance, you will enjoy many years of dependable service.

Your Luggie Scooter needs to receive maintenance at regular intervals and should be inspected frequently for proper mechanical operation. Trouble shooting guidelines, methods of detecting improper operation and making minor adjustments are included in this manual.

Follow all recommendations to obtain trouble free, safe and enjoyable operation of your Luggie scooter.

Please remember that when it comes to service and repairs, your authorised **Luggie** dealer knows your **Luggie** Scooter best.



PRODUCT DESCRIPTION

The three wheel **Luggie** supplied has fitted as standard the following features:

- Rear-wheel drive via sealed drive axle.
- 8.5AH/10AH Lithium Battery.
- Manual charging system.
- Off-Board charging facility.
- Seat with folding backrest, height adjustment and adjustable width arm-rests (option).
- A multi-positional handlebar for greater comfort.
- A simple 'wig-wag' type control lever situated on the handlebar, controls speed, braking and direction.
- Steering is controlled by a handlebar attached to a fork system containing the twin front wheel.
- Independent braking systems.
- 'State of the art' micro-controller electronics ensures a smooth , comfortable and safe drive on most surfaces and gradients.

- One piece Alloy Aluminum chassis for ease of transporting.
- Your Scooter can be direct folding, without the use of tools for ease of transporting.
However, your Scooter is not designed to transport the user in a moving vehicle; for advice on transporting consult your selling agent.
- Simple to remove battery pack.

The product should be serviced as recommended by an approved Luggie distributor in order to ensure safe, reliable operation. For details and list of options available for users, refer to the accessories section of this manual.



Luggie FEATURE GUIDE

1. Top console
2. Wig-Wag lever
3. Clamp
4. Trigger
5. Transporting wheels
6. Front solid tires
7. Tiller locking clamp
8. Chassis hook
9. Chassis locking pin
10. Charging socket
11. Battery pack
12. Disengage lever
13. Seat lock
14. Rear bumper
15. Rear solid tires
16. Carry belt
17. Knob
18. Anti-tipping wheels
19. Armrest pad (option)
20. Resistant slide label





PURPOSE OF YOUR Luggie SCOOTER



Your **Luggie** Scooter is suitable for persons who require independent mobility or pre-mobility people combined with comfort, maneuverability, reliability and a product that needs a minimal amount of maintenance.

The intended user should possess some degree of ability with the use of both arms and hands, reasonable balance and eyesight, and a degree of spatial awareness. The user should have received training in the use of the product, preferably in their normal environment. The maximum user weight for the **Luggie** can be found in the rear of this manual, under 'Technical Specification'.

Your **Luggie** is suitable for use indoors in shopping malls or precincts for example, or outdoors on dry, smooth level surfaces. It climbs slopes safely up to 6° and over obstacles up to 2.5cm (1"). Your Scooter should not be used in torrential rain or snow, on loose slippery surface and slopes or on wet grass etc., which could become a danger to the rider and scooter.

Your Luggie is a 'Class 2' (B) * vehicle and designed for pavement use only. The Luggie must Only be used on the road with caution if a pavement is not available.

It is designed for a single occupant who experiences difficulty or discomfort when walking for prolonged periods, but has the use of both legs and the physical, visual and cognitive ability to operate the Scooter safely.

Do not drive your Luggie if you are under the influence of alcohol, drugs or medication that may affect your ability. If in doubt consult your doctor.

As a pavement user you should familiarise yourself with the current legislation contained within the Highway Code.

* DEFINITION

Electrically powered scooter are classified in the following categories :

Class 2 as defined in "The use of invalid carriages on the Highways Regulations 1988". A scooter type invalid carriage designed for the use on the footway, with maximum speed up to 4 M.P.H.

Class 'B', as defined in The European Standard EN12184 : 1999. A scooter sufficiently compact and manoeuvrable for some indoor environments and capable of travelling over longer distances and negotiating outdoor obstacles.



GUIDELINES FOR SAFE USE



These symbols below are used in this owners manual to identify warnings and cautions. It is very important for you to read and understand them.



Warning : Failure to note the warnings in this users manual may result in personal injury.



Caution : Failure to observe the cautions in this users manual may result in damage to your Scooter.

Your **Luggie** is a powerful machine, for your safety and the safety of bystanders, please read all of the instructions in this manual before operating your Scooter, they have been prepared from years of experience with this type of equipment. Follow notes carefully to ensure safety at all times.

Always make certain your machine is in full working order before starting your journey.

1. **Do not ride your Luggie without reading this instruction manual. Also read all of the safety instructions and**

Warnings starting on page 10 of this manual.

2. Only drive your **Luggie** if your health condition will allow you to be safe.
3. Do not exceed the maximum safe gradient outlined for your vehicle (see Technical Specification, page 25).
Warning: Always have the anti-tipping wheels fitted when outdoors or on ramps indoors (Fig 12,page 15).
4. Do not carry passengers or exceed the maximum carrying weight. (See Technical Specifications page 25).
5. Do not mount or dismount your **Luggie** unless it is switched off with the freewheel device fully engaged.
6. Do not switch your **Luggie** 'on' with the forward/reverse lever depressed.
Warning : Do not hang bags etc over your steering handlebars. Failure to observe this warning may interfere with your controls and put you and others at risk.



8. Do not reverse your **Luggie** onto uneven inclines or surfaces. Be cautious when traversing slopes.
9. Do not drive your **Luggie** in a confined space unless the speed lever is set low.
10. Do not turn suddenly at full speed, especially on uneven or sloping ground.
11. Do not drive your **Luggie** where you cannot safely or legally walk. Obey the Highway Code.
Warning : Do not drive your **Luggie** unless the seat is locked into the driving position.
12. Do not drive your **Luggie** with the handlebar adjustment lock, in the unlocked position.
13. Do not drive your **Luggie** over deep, soft terrain (eg. soft earth, deep grass, loose gravel, snow).
14. Do not drive when under the influence of alcohol or certain drugs which may impair your safety.
15. Avoid climbing or descending kerbs, you may damage permanently your scooter.
16. Always approach small obstacles "straight on" and at slow speed. Do not attempt to climb or descend kerbs. This may damage your scooter.
17. Always stop fully before changing direction (forward or reverse).
18. Always keep your feet on the vehicle when driving.



19. Always proceed carefully while riding, especially as you approach the downgrade of a ramp.
 20. Always avoid uneven surfaces.
 21. Always consult your physician or a therapist if in doubt about your ability to operate a Scooter.
 22. **Transport - Do not sit on your Luggie while it is in a moving vehicle. Always strap down your Luggie then transfer to the vehicle seat.**
 23. The batteries fitted to your **Luggie** are maintenance free and do not require topping up with distilled water. Do not attempt to remove the safety valves situated in the top of the battery. Failure to observe this warning will invalidate your battery guarantee.
 24. Do not drive your **Luggie** through deep water or clean with a high pressure hose.
 25. Do not drive your **Luggie** through sand or sea water, this is very corrosive. Always wash salt splashing from the metal parts of your Scooter with hot soapy water as soon as possible. This is also important during the winter months when roads and pavements have been treated with salt water to prevent icing.
- Please remember you are a motorised pedestrian and must observe all rules and regulations of other pedestrians wherever possible. Your Luggie has not been designed for use on normal roads, except for crossing between pavements and where a pavement is not available.**

Please have a safe journey

GETTING TO KNOW YOUR Luggie



Your **Luggie** Scooter is delivered in a strong tri-wall carton or suitcase(option). When unpacking the carton, first remove all of the sharp metal staples which are located in the top. Carefully dispose of the staples to avoid injury. Remove all packing materials, avoid using sharp instruments as this may damage the Scooter. Carefully remove the Scooter from the carton; to minimise damage to the Scooter and the operator, two people should be used for this operation.

Safely dispose of all packaging materials, your local waste disposal authority can advise you on this procedure.

Your **Luggie** Scooter is delivered fully folding, fitting the battery pack together with some minor adjustments are detailed on the following pages, under 'Operating your **Luggie**'. A full technical specification for your **Luggie** can be found at the rear of this manual.

A great deal of thought and consultation has gone into the design of your state-of-the-art, life-changing Scooter. Your **Luggie** Scooter will help to increase your mobility and therefore give you more time and energy to enjoy life. The **Luggie** Scooter is a small sized, three wheeled/ four wheeled vehicle which will allow you to negotiate obstacles found in confined shopping areas. This is just one of the features you will find on your **Luggie** Scooter. Others are:

COMFORT - The contoured seat helps cushion you from the vibrations of a journey, giving you maximum comfort. A fully proportional speed-controller with a speed restriction facility allows you a smooth jerk-free ride. Automatic braking system gives you that added peace of mind.

VERSATILITY - The fold down seat, together with a facility to fully lower the steering handlebar, allows your **Luggie** to be easily transported in an average

saloon or hatchback car for those days when you travel further afield.

SERVICE - Your **Luggie** has been designed to be service friendly. Sealed batteries which are virtually maintenance-free will give your **Luggie** the power it requires. Should you need to take your battery pack on an aircraft, then you can have peace of mind because the batteries are totally spill-free. (Please consult your carrier for details).

SAFETY - The advanced speed controller has been designed with extensive self-checking circuits to give you the maximum 'state-of-the-art' safety technology. Fully automatic braking system gives the driver confidence in any environment.

CAUTION - Do not switch off when you are moving; this will automatically apply the motor parking brake suddenly and could place you in a dangerous situation. Your **Luggie** is fitted with anti-tipping wheels. Do not remove these anti-tipping wheels, they are an important part of the **Luggie** design provided specifically for your safety. They help protect against backwards tipping on excessively sharp inclines.

CHARGING - Your **Luggie** is fitted with a battery level indicator. Charging is straight forward. Your charger is fully automatic and will reduce to a top-up charge mode when the re-charge cycle is complete. (See Batteries and Battery Charging section of this manual).



OPERATING YOUR **Luggie**

OPERATING YOUR **Luggie**

Before setting out on your **Luggie**, you need to make sure that your seat is in the correct riding position. Set the seat to the correct height for your individual needs. The seat has 2 basic adjustments to assist your comfort.

UNFOLD LUGGIE SCOOTER

1. Pull unfolding ring and carefully use two hands to make certain your **Luggie** that are flattening on the ground (Fig 1, Fig 2).
2. Pull-backward to release the seat-lock (Fig 3).
3. Fasten security lock in the joint of front and rear chassis on two sides (Fig 4).
4. Release the tiller locking clamp (Fig 5).
5. Release the trigger to raise the tiller until the handlebars are at comfortable position (Fig 6), then fasten the tiller locking clamp (Fig 5).
6. Seat:
 - Pull-backward to release the seat-lock (Fig 3).
 - Lift up the seat with another hand simultaneously.



FIG 1

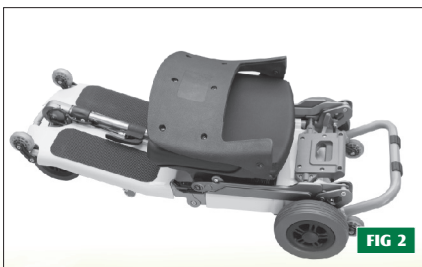


FIG 2

- Let the seat release go and locate the seat at the first-stage height.
 - Repeat the above steps to up-lift the second-stage height
7. Stretch the seat back.
 8. Install the battery, no matter it's the very first time or usual use for travel.



Warning : (1) If battery-installed Luggie has been idled for a long period, it might discharge and at low power level. (2) It's better to take out the battery when folding and un-folding. If not, be careful not to touch the power switch to prevent any danger.

9. **Armrest Width Adjustment(option):** On each side at the rear of the seat you will find a large black knob. By simply loosening this knob you are able to slide the armrests in or out to whatever width you desire. Re-tighten the knobs fully. You may need a friend to assist you with this initial setting up operation. This may extend the width of your Scooter.

Caution : The backrest of your seat will not fully fold forwards if the armrests are positioned too closely towards one another.

Warning : Do not drive your Luggie with the arms removed or in the raised position.



HANDLEBAR ADJUSTMENT

1. The handlebar of your Luggie is designed to allow you to position it in a comfortable driving position. It can be locked into numerous positions or unlocked to move freely for transportation.

2. The handlebar lock is operated by a black lever positioned on the right hand side of the handlebar (see Fig 6). To release the handlebar from a locked position pull the black lever upwards, the handlebar will now move freely, but under mild tension. To lock the handlebar into a comfortable driving position, simply push the black lever downwards until the handlebar is locked firmly into position.

3. With the combination of the height adjustment together with the handlebar movement, you should find a suitably comfortable driving position.



Warning : Always make certain the handlebar locking lever is fully down and the handlebar is securely clamped onto the chrome support plates before driving your Scooter. To make service adjustment of this part, refer to the Care and Maintenance section of this manual.

CONTROL FEATURES

Your controls are located on the handlebar console (see Fig 7) they are :



Caution : Do not switch to 'off' when your Luggie is moving. Failure to observe this warning will result in the motor brake being applied suddenly and placing you in a dangerous situation.

You should only switch 'off' when in motion in the case of an emergency. Continual use in this mode may cause undue stress to the drive system and damage the main electronic



FIG 3



FIG 4



FIG 5

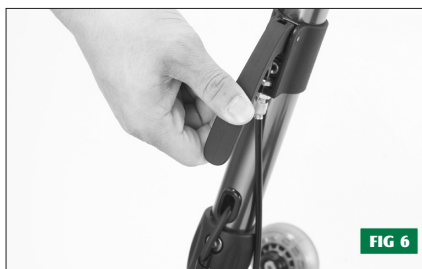


FIG 6

speed control unit.

Be extremely cautious on slopes. Sit upright in your seat or your machine could become less stable.

Sleep Time: When you rest your Luggie Scooter with the electronics switched 'on' you are using valuable battery power. Our Luggie Scooter will automatically go into a

sleep mode to preserve battery energy after approximately 15 minutes, the battery indicator and green status light goes off. To start your Scooter again simply switch off and back to on again, your Scooter is now ready to go.

4. **Status Light:** When you turn your **Luggie** Scooter on, the light on your console will illuminate at a constant rate. The status light is connected to a very sophisticated diagnostic system which can identify faults which could occur on the main speed control system or some other part of your Scooter's electronic drive system. For instance if your batteries run low in power, the status light will flash slowly at one flash a second; this indicates your batteries need recharging.

If you notice the status light flashing at two flashes per second, you are being notified that the battery voltage is too low and you must stop using your Scooter at the earliest opportunity. Your status light has nine similar flashing diagnostic signals, reference to these diagnostic codes is found under 'Fault Finding' at the rear of this manual.

5. **Battery Condition Indicator:** Located at power switch.

When your Scooter is switched on, the needles on the gauge will move across the scale from the left 'red' sector towards the 'green' sector, indicating the state of charge in your batteries. As the power is used up in your batteries the needle will move towards the red sector indicating the state of charge at that precise time. When the needle is fully over to the right (green sector), the batteries are fully charged. When the needle falls towards the red sector your batteries are losing power, but you will still have power to spare. When the needle falls into the red sector your batteries are low in power and need to be re-charged, although you will still have approximately half-an-hours normal flat pavement driving in reserve. It is not recommended to use this power regularly as it will shorten battery life. It is wise to re-charge your batteries when the needle enters the red zone (see Batteries and Battery Charging section of this manual).

NOTE : When driving up a slope or similar obstacle your **Luggie's** motor will be working hard, the battery gauge will move into the red sector, it will return towards the green sector once the load on your motor is reduced, this does not indicate low batteries.

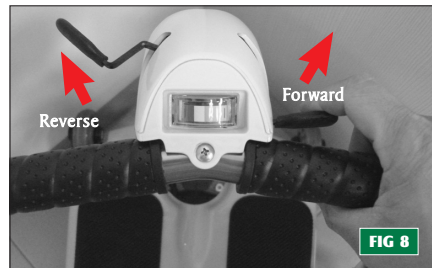
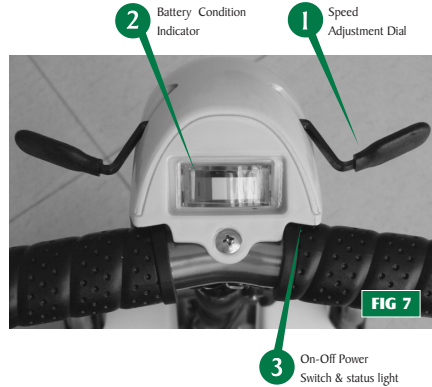
FORWARD, REVERSE CONTROL LEVER (Wig wag)

Located front of the handlebar grips (Fig 7). Your speed for forwards and reverse motion and braking is controlled here. The right thumb lever moves your **Luggie** in a forwards direction and also controls the rate of speed by the proportional amount of pressure applied. The left thumb lever moves the **Luggie** in a reverse direction and controls the rate of speed by the pressure applied. The lever when released will return itself, and you will gently stop. You will note that you can obtain the reverse of this procedure by pulling the levers backwards with your thumb.

Warning : Do not hang bags etc over the steering handlebars which could interfere with the movement of your control lever. Failure to observe this warning could put you in a dangerous situation.

Note : Your approved **Luggie** distributor can modify your vehicle for left-hand forward operation use.

Warning : If you are not an accomplished outdoors powered vehicle driver, we strongly recommend that you first practice in an open, safe area, free from traffic, preferably with a **Luggie** who can assist you.





FREEWHEELING YOUR Luggie

If for reasons of convenience, you require to push your Luggie Scooter for a short distance, the drive system can be put into 'freewheel mode'. This will allow your Luggie to roll freely.

Luggie FREEWHEEL PROCEDURE

The freewheel device is a red handled lever located at the top, rear right hand side of your Scooter (Fig 9). Access is available from under your seat. To freewheel your Luggie first switch off the power switch located on the Luggie's control console (Fig 7). Push forward the red handled lever (Fig 9) until a distinct click is felt (disengage). You can now push your Luggie with ease. Please note, in this mode with the power switch in the off position, the braking safety system is automatically activated when the Scooter is pushed quicker than a slow walking speed.

By switching on the console power switch at this stage you will introduce some heavy motor braking, you will note the green status light on your console is now flashing five times. This indicates that your Luggie is in a freewheel mode and you cannot drive your Scooter. Note, the quicker you push your Scooter the heavier the brake will be applied.

To re-engage the drive system, simply pull backwards on the red handled lever until a distinct click is felt (engage). Switch the power switch on your console off and then on, the green status light will be fully illuminated and you will be able to drive your Luggie once again.



Warning : Do not sit on your Luggie Scooter with the freewheel device in the disengage position. Your Luggie Scooter has limited braking and will not drive in this mode, the status light on your console will flash five times.



Warning : If your Luggie Scooter is in the freewheel



mode when you switch on and press forward - reverse lever, you will not be able to move Under motor power. Dismount and re-engage the drive system by pulling backwards on the red handled lever(engage). Remount your Scooter, switch the power switch off and on again until the green status light fully illuminated, your Luggie will now drive under motor power again.



Warning : Always check that the freewheel device is in the drive position before attempting to drive your Scooter after it has been left unattended for a period of time. **Failure to observe this warning may result in an accident.**

General note: If you are able to push your Luggie the drive system is disconnected. Do not attempt to drive your Scooter. Please check once again the above mentioned procedure for re-engaging the drive.



Warning: If your batteries are disconnected from your Scooter there will be no brake function in the freewheel mode. Do not leave your Scooter unattended in this situation as it could roll away causing damage to other parties or property. Always re-engage the drive system when left unattended.

Please take extreme care



SAFETY INSTRUCTIONS & WARNINGS

GENERAL



Warning : Do not attempt to operate your new Luggie Scooter for the first time without completely reading and understanding all of the facts in this Users Instruction Manual.

Your **Luggie** Scooter is a state-of-the-art device designed to enhance and increase your mobility. **Luggie** provides a range of Scooters to best suit the individual needs and circumstance of the Scooter user. Please be aware that the final selection and purchasing decision regarding the model of Scooter to be used is the responsibility of the Scooter user who is capable of making such a decision with assistance from his/her healthcare professional (i.e. medical doctor, physical therapist etc.) The contents of this Users Instruction Manual are based on the expectation that the mobility device expert has properly fitted the Scooter to the user and has assisted the prescribing healthcare professional and/or the authorised Luggie Distributor in the instruction process for the safe use of the scooter.

There are certain situations, including some medical conditions, where the Scooter user will need to practice operating the **Luggie** 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.

When you begin to use your **Luggie** Scooter, you will probably encounter situations in which you will need some practice. Simply take your time and you will soon become confident and in control as you manoeuvre through doorways, on and off elevators, up and down ramps and over moderate terrain. Below are some tips, precautions and other safety measures that will help you to become accustomed to the safe operation of your **Luggie** Scooter. Your **Luggie** Scooter is fitted with a number of safety "Warning Instruction" label (see page 13). These labels communicate important warnings or instructions. Please familiarise yourself with their location.

SAFETY CHECK

Get to know the feel of your **Luggie** Scooter and it's capabilities. **Luggie** recommends that you perform a safety check before each use to make certain your Scooter operates smoothly and safely. For details on how to perform these necessary inspections, see the Care and Maintenance section of this manual. Perform the following inspection prior to using your **Luggie** Scooter.

- Check all battery connections, make certain they are serviceable and not corroded.
- Check batteries have been fully charged.
- Check operation of brakes.

Warning : Do not carry passengers on your **Luggie**.

Your Scooter is designed for a single occupant which complies with legal requirements for pavement vehicles. Carrying passengers on your Scooter may result in personal injury and/or property damage.



WEIGHT LIMIT

Your **Luggie** Scooter is designed for a maximum user weight limit of 114kg (252lbs)(18 stone).

Warning : Exceeding the weight limit will void your warranty and may result in personal injury and damage to your scooter. **Luggie** will not be held responsible for injuries and/or property damage resulting from failure to observe these weight limitations. Please also remember when carrying heavy objects that this will increase your total weight and may make your Scooter unstable.



CORNERING

Excessively high cornering speeds can create the possibility of tipping. Factors which affect the possibility of tipping include, but are not limited to, cornering speed, steering angle (how sharply you are turning), uneven surfaces, inclined surfaces (such as heavily cambered pavements), riding from an area of low traction to an area of high traction (such as passing from grass areas to a paved area - especially at high speed while turning), and abrupt directional changes. Do not corner at high speed! If you feel that you may tip over in a corner, reduce your speed and steering angle to prevent your Scooter from tipping.

Warning : When cornering sharply, reduce your speed. When using your **Luggie** at higher speeds, anticipate changes in the road surface. This will greatly reduce the possibility of a tip or fall. To avoid personal injury or property damage, always exercise common sense when cornering.



BRAKING

Your **Luggie** Scooter is equipped with two powerful brake systems:

1. Regenerative: Uses the electricity generated in your **Luggie** drive motor to rapidly slow your Scooter when the thumb direction lever (wig-wag lever) is returned to the centre (zero drive) stop position.
2. Electric/Mechanical Disc Park Brake: Located on the end of your drive motor it activates mechanically after the regenerative brake slows your Scooter to a near stop, or when power is removed from the drive system for any reason, as in the case of switching your machine off!

Brake engagement is far more abrupt at higher speeds. It is important that you anticipate when the brakes will engage and that you are braced for the resulting deceleration.



Warning : Your Scooter can decelerate very quickly. Do not decelerate or turn abruptly when travelling at high speed unless absolutely necessary. If it is necessary to decelerate or turn abruptly when driving at high speed, brace yourself by Gripping the steering handlebar tightly and positioning your feet firmly on the floorboard. Users who cannot grip the handlebar tightly and/or place their feet firmly against the floorboard should avoid deceleration from or turning abruptly at high speed, and therefore should avoid travelling at high speed. Failure to observe this warning could result in serious personal injury and property damage. Always brace yourself firmly when decelerating your **Luggie** Scooter.

Never drive down slopes at full speed, always adjust your speed to the driving condition and allow for gradual descents on inclines.

OUTDOOR DRIVING SURFACES

Your **Luggie** Scooter is designed to provide optimum stability under normal driving conditions i.e. dry, level surfaces composed of concrete or asphalt. However **Luggie** recognizes that there will be times when you will encounter other surfaces such as packed soil, grass and gravel. These surfaces may not be sound and fail to give good traction, caution should be considered before driving on this type of surface to prevent stability problems resulting in injury or Damage to your Scooter.

- Reduce your Scooters speed when driving on uneven terrain or soft surfaces.
- Avoid long and unsafe grass that can become tangles in the running gear or may hide debris and holes.
- Avoid snow, this can quickly build up around your wheels.
- Avoid loosely packed sand and gravel.
- If you feel unsure about a driving surface, please anticipate and avoid that surface.

STREET AND ROADWAY DRIVING



Warning : Your **Luggie** Scooter has not been designed for operation on public streets and roads. It is designed for operation on pedestrian pavements and traffic free shopping areas.

Your **Luggie** Scooter must be driven with due care and compliance with the Road Traffic Acts and conditions of the Highway Code. Always obey all local pedestrian traffic rules. Wait until your path is clear of traffic, and then proceed with extreme caution. Note: Always wear light or illuminating clothing when driving your Scooter. Be aware that it may be difficult for traffic to see you when you are seated on your Scooter. Only drive your Scooter on the road when a public pavement is not available (i.e. in the countryside) or when crossing the roadway from one pavement to another.

INSURANCE

Although it is not a legal requirement for accident insurance cover (third party), it is a sensible precaution. Your **Luggie** Authorised Agent will be able to give you details of specialist insurance companies or you own insurance company will be able to advise you.

WEATHER PRECAUTIONS

Warning : **Luggie** recommends that you do not operate your **Luggie** Scooter in icy or slippery conditions or on salted surfaces i.e. Roads and Pavements etc. Such use may result in accident, personal injury or adversely affect the performance and safety of your Scooter.



Warning : **Luggie** recommends that you do not expose your Scooter to any type of heavy moisture at any time i.e. rain, snow or power washer. Such exposure can damage your Scooter. Never drive through deep water or expose your Scooter to sea water. Do not operate your Scooter if it has been exposed to heavy moisture until it has been thoroughly dried out.



FREEWHEEL YOUR Luggie

Your Scooter is equipped with a manual freewheel device for convenience when you need to push it. See the Freewheeling your **Luggie** section on page 9 of this manual.

Warning : Do not use your Scooter in the freewheel mode without an attendant present. Personal injury may result.



Warning : Do not attempt to personally disengage your scooter in the freewheel mode while seated on it. Personal injury may result. Ask an attendant for assistance if necessary.



Warning : Do not place your Scooter in freewheel mode while on an incline. The Scooter could roll uncontrollably on its own, causing personal injury.



MOTOR VEHICLE TRANSPORTATION

Currently there are no standards approved for "tie down" systems in a moving vehicle of any type to transport a person while seated in a Scooter.

Warning : Do not sit on your Scooter while it is in a moving vehicle. Personal injury may result. Warning: Always make certain that your **Luggie** is properly secured when being transported. Failure to comply may result in personal injury and/or damage to your Scooter.



ACCESSING YOUR SCOOTER

Getting on and off your Scooter requires a good sense of balance. Please observe the following tips when getting on or off your Scooter:

- Make certain your **Luggie** Scooter is switched off at the power switch.
- Ensure your **Luggie** is not in the freewheel mode (Page 9 freewheeling your **Luggie**).
- Make certain the seat and handlebars are locked firmly into position.
- The seat armrests can be lifted up to make access easier. Make certain you do not attempt to drive with the armrests raised (option).

 **Warning :** Position yourself as far back into the Scooter seat as possible to prevent tipping and causing injury.

 **Warning :** Avoid using the armrests for weight bearing purposes, such use may cause the Scooter to tip and cause personal injury and/or damage to the Scooter.

 **Warning :** Avoid putting weight onto the steering handlebars, such use may cause the Scooter to tip and cause personal injury and/or damage to the Scooter.

 **Warning :** Avoid putting all of your weight onto the footboard, such use may cause the Scooter to tip and cause personal injury.

MODIFICATIONS

Luggie has designed your **Luggie** Scooter to provide maximum mobility. A range of accessories are available from Authorised **Luggie** Agents, to further customise your Scooter needs. However, under no circumstances should you modify, add, remove or disable any feature, part or function of your machine. **Warning :** Failure to observe this warning may result in personal injury and/or damage to your Scooter.

INCLINES

More and more modern buildings are designed with disability access in mind. Ramps have specified percentage 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 other incline, sit right back in your seat, brace your arms on the handlebars and your feet on the floorboard.
- Take a wide arc with your **Luggie's** front wheel around tight corners, your rear wheels will follow preventing you from cutting the corner short and bumping or getting hung up on raised kerbs.
- When descending an incline keep your speed adjustment set to the slowest speed setting to ensure a safely controlled descent and driving in a forward direction only. If your Scooter descent is quicker than you anticipated allow the Scooter to completely stop, then progress at a slower speed setting.

 **Warning :** Never drive down an incline at full speed.

- When climbing an incline, try to keep your Scooter moving, if you must stop, start up again slowly and then accelerate smoothly with caution. Avoid sudden stop starts, lean forward towards your handlebars to increase stability and prevent rearward tipping.

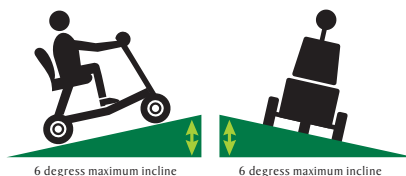
 **Warning :** When climbing an incline, do not zig-zag or drive at an angle up the face of the incline. Drive your Scooter smoothly up the incline without stopping, this greatly reduces the possibility of a tip or fall.

 **Warning :** You should not travel over a potentially hazardous incline i.e. areas covered with ice or snow, cut grass or wet leaves or any unstable surface.

 **Warning :** Do not overload your Scooter at the rear when climbing an incline. Always lean forward to provide the best stability and prevent rearward tipping.

 **Warning :** Any attempt to climb or descend an incline steeper than shown in the Scooter Specification at the rear of this manual may put your Scooter in an unstable position and cause it to tip, resulting in personal injury.

Never remove the anti-tip wheels of your Scooter, they are an important part of your Scooters design. See also Control on an Incline.



STAIRS AND ESCALATORS

 **Warning :** Scooters are not designed to travel up or down stairs or escalators. Always use an elevator. Failure to observe this warning may result in injury to yourself and others and damage your Scooter.

PREVENTING UNINTENDED MOVEMENT

 **Warning :** If you anticipate being seated in a stationary position for an extended period of time switch off the power, this will prevent unexpected motion due to inadvertent movement of the direction control (wig-wag) lever. Failure to observe this warning may result in personal injury.

DISPOSAL OF ELECTRO-MOBILE SCOOTER

In time when your Scooter becomes unusable it must be disposed of in accordance with the laws implemented at that time. For further information regarding the recycling arrangements for this type of vehicle and its batteries, contact your local authority or government department, details of this can be found in your telephone directory .

The following labels are positioned on your Luggie, communicate important warnings or instructions regarding operation of your scooter - Please familiarize yourself with their location.



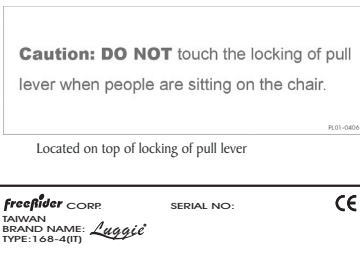
Located on front of the Scooter's chassis



Located on front of the Scooter's chassis



Located on middle of chassis



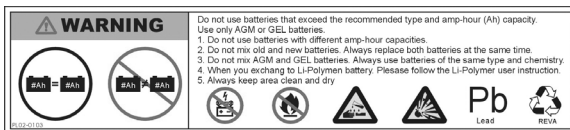
Data serial plate located on front wheel cross member.



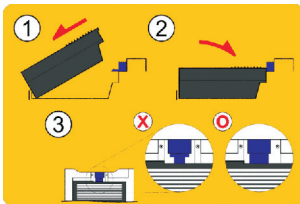
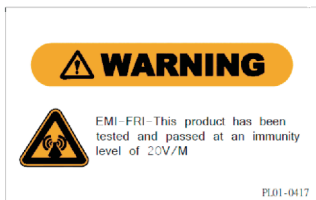
Located at the left hand rear
cover of scooter



Located on middle of handlebars tiller



Located on right side of battery





LEARNING TO GET ABOUT



Warning : If you are not an accomplished outdoors mobility product driver, we strongly recommend that you first practice in an open area, free from traffic and preferably with an attendant who can assist you.

Next, switch on (The battery state indicator will move and the status light will illuminate).

Gently press the right thumb control lever (Fig 8, page 8) to start you in a forward direction. To stop simply release the lever, the brakes will be automatically applied.



Warning : Please take care not to have your thumb on the forward/reverse control lever when you switch 'on' your

Luggie; this will result in your machine going into a fault mode. Switch 'off' then 'on' again to clear the fault.



Warning : If your **Luggie** has been adapted for left hand, forward operation then this procedure will be reversed: i.e. pressing with the left thumb for forward direction and the right thumb for reverse direction.

DISMOUNTING

that a back wheel will go off the pavement, causing a stability problem. Avoid this at all times by steering an exaggerated wide arc around the obstacle.

LEARNING TO GET ABOUT

If you must steer in a tight spot, such as entering a doorway or when turning around, stop, turn the handlebars to where you want to go, then apply the power gently. This will make the **Luggie** turn sharply. It will still go gently, and with complete stability. Practice in an open area, until you are Proficient. Reversing requires attention (Fig 8,page 8). Remember, when you reverse you have to steer in the opposite direction to the way you want to go. Practice is required here, again use that open space. Please note as a safety requirement reverse speed is half of forward speed. Note: If your **Luggie** is set up for left forward driving the afore mentioned description is reversed.

REMEMBER : If it is a tight turn, turn your steering column before applying power. Steer wide of all corners and obstacles, please move slowly and with care.



Warning : Do not switch off when your **Luggie** is in motion, failure to observe this warning may irreparably damage the main electronic speed control unit or drive transmission. Always first slow your **Luggie** down to a stationery position before you switch your Scooter off.

CONTROL THROUGH TIGHT SPOTS

When you start using your **Luggie** you will meet some obstacles that will require some practice to drive through smoothly.

Here are some common problems, with tips that will help you master them quickly. You will soon be in control through doors and up and down ramps with surprising ease by following these tips.

CONTROL THROUGH DOORS

Approach an unfamiliar door slowly, sizing it up. Does it have a knob or push bar? Does it open toward you or away?

Think in terms of using the power of the **Luggie** to do the work for you! You need not strain.

Hold the doorknob or bar in one hand and apply power with the other hand. (Remember that you can drive forwards by using your left thumb to move the wig-wag lever towards you.) If the door is self closing, you can go through, allowing the door to close behind you, if you go quickly enough. If not, just stop when you're clear of the door and push it closed.

If the door opens toward you, hold the knob or bar with one hand and gently let the reverse power do the work. When the door is open wide enough, go ahead quickly, leaving the hand on the door to keep it free of the Scooter and letting go as you pass the doorjamb. It is an easy technique. Practice makes perfect. Remember - your **Luggie** can do the work without wearing you out!

Going through doors, with the back wheels: If you're not moving, your rear wheel is probably caught. Reverse and try again. Take your time - relax - enjoy yourself.

CONTROL ON AN INCLINE

More and more buildings have ramps for wheelchair access. Some have a change of direction in the middle, and good cornering is required.

Make a wide manoeuvre with your front wheel around tight corners, so that your back wheels follow a wide arc to stay clear of the corner.

If you stop while facing uphill, the automatic parking brake will hold you safe. To start again, slowly push the forward direction lever, the parking brake will release and you will start to move.

When you approach an incline, it is best to lean forward, (Fig 10, Fig 11, page 15). This moves the centre of gravity of your **Luggie** towards the front of the Scooter for improved stability.

When going down an incline, keep your speed slow. This will keep you in a safely controlled descent. It is best to lean backwards, this moves the centre of gravity of your **Luggie** towards the rear of the scooter for improved stability. If you wish to stop completely, release the control lever, and you will come to a gentle stop, avoid sudden stop starts.



Warning : Do not exceed the incline guidelines or any other specifications presented in this manual.

CONTROL OVER STATIONARY OBSTACLES

Stationery obstacles (steps, kerbs etc) must be avoided where possible. Your **Luggie** has small wheels and a ground clearance of 4.0cm. Proceed with extreme caution when driving near raised surfaces, unprotected ledges and/or dropoffs such as kerbs, porches, stairs etc.

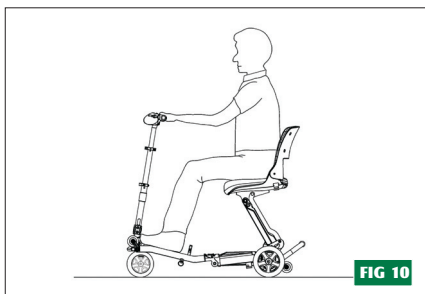


FIGURE 11 : Normal driving position

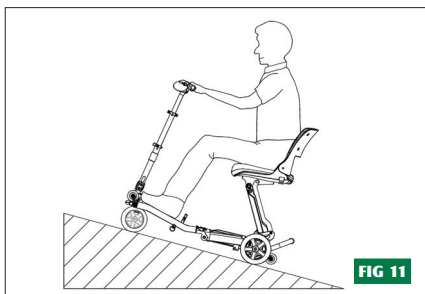


FIGURE 12 : Increased stability driving position

Most new pavements have wheelchair access ramps at intersections, use these at all times. Plan your route where possible to avoid poor and uneven surfaces. Do not attempt to ride up or down kerbs as you may ground your Scooter and damage it's construction.

CONTROL OVER GRASS & GRAVEL ETC.

Care must be taken when attempting to drive over soft surfaces such as those found in parks etc. The surface may look level, but this can be deceiving and hidden dangers may make your **Luggie** become unstable or grounded.

Avoid unkept grass, loose deep gravel or sand, do not exceed the capabilities of your Scooter.

Always have an attendant to assist you in circumstances where you are not certain of the terrain. Always anticipate and think safety.

Caution : Because of the power of your **Luggie** , you will be able to climb inclines. But the maximum safe gradient limit is 6 degrees. The reason for this is to ensure good stability.



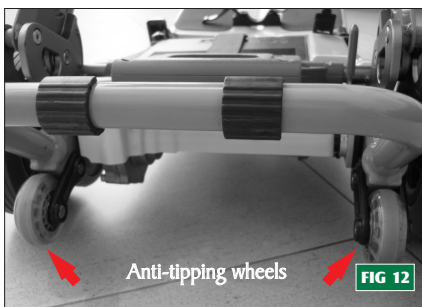
Always have the anti-tipping wheels fitted to your machine (Fig 12) when climbing angles or obstacles. Always avoid turning on slopes or climbing kerbs.

Always make certain that your **Luggie** is in full working order before attempting to drive.

Never attempt to drive beyond the design capability of your **Luggie**. Observe weather conditions. Tyres can slip on wet or icy surfaces.

DO NOT DRIVE THROUGH DEEP WATER OR LEAVE YOUR Luggie EXPOSED TO HEAVY RAIN.

i.e. During or after a thunderstorm.



Do not attempt to turn when negotiating an incline, only turn when all wheels are fully on or off the incline; failure to observe this warning could result in the machine becoming unstable and toppling over.

Always lean forward when ascending an incline and backwards when decending an incline. This will enable you to maintain good stability and will eliminate any chance of an upset.

PLEASE NOTE: The rear stability of your Scooter is dependent on a number of factors which you should consider before attempting to climb an incline or other obstacle:
(a) your height; (b) the height of your seat; (c) your weight and (d) the angle of the incline you are attempting to climb. All of these factors can affect the rear stability of your **Luggie** Scooter. If you are unsure of your capability to climb an obstacle, then try another route - always think 'safety first'.

Please take care and be safe



TRANSPORTING YOUR Luggie

Whether it is for a holiday, a day out to visit family or friends, or a trip to the shops, your **Luggie** can be taken along too.

Depending on the size or model of your car you will be able to load your **Luggie** in one of the following methods.

1. With the aid of a car hoist. Your dealer will be able to advise on suitable equipment.
2. With the aid of ramps. Ramps will aid you to drive your **Luggie** Scooter straight into a people carrier or estate car. If the rear opening is low you may have to remove your **Luggie** seat and lower the handlebars.
3. With the seat and batteries removed to reduce weight, lift the scooter in one piece into a small hatchback or estate car (see fig 14).

FOLDING YOUR Luggie FOR JOURNEYS WAY.

To enable your **Luggie** Scooter to be carried in a suitable estate or hatchback car (Fig 14), follow these simple instructions for dismantling your scooter. This procedure can be carried out quickly and without tools (Operating you Luggie see page 6).

Place the batteries on a firm and safe surface. Your batteries are sealed and cannot spill if tipped over. Always carry the batteries upright.



Warning : Do not place metal objects over open battery terminals. BEWARE of short circuits.



Warning : You must never attempt to drive your **Luggie** Scooter with the steering pin fitted.

Failure to observe this warning will put you in a dangerous situation.



Caution : Protect clothing when lifting Scooter parts, some components may have lubricating fluids on their surfaces. Work out the best position to stow each part of your machine, this will vary with different car designs. An old blanket can be used to stop the various parts rubbing against each other. It is good practice to stand batteries upright and locate them so they do not move and touch the battery posts on any metal framework. Your **Luggie** will increase the load in your car, please remember this and adjust your driving to suit this condition.

Note: In some small cars the seat may need to be stowed on the rear seat of the vehicle. Use the cars safety belt to secure the seat in position.

When using access ramps to load your **Luggie** into a car, always keep your body clear of your scooter to prevent

entrapment. Never ride your scooter when loading it into a vehicle, failure to observe this warning could put you into a dangerous situation.

Always make certain your scooter and any ancillary parts are correctly tied down in the carrying vehicle to prevent movement during acceleration and braking. Most modern cars have anchor points in the floor for this procedure.

Remember you have increased the load in your car, please take account of this and modify your driving accordingly.

Warning : Always make certain that your scooter is stored in the carrying vehicle with the 'Freewheel' system in the engaged position.



FIG 13



FIG 14-a



FIG 14-c



FIG 14-b



BATTERIES & BATTERY CHARGING

Your **Luggie** Scooter is equipped a battery pack with two maintenance free 12 volt 18Amp/hr batteries.

Lithium battery optional. The batteries are linked together by wiring cables to supply the electronic system with 24 volts of Power.



Warning : It is imperative that the two batteries are connected correctly to prevent a short circuit between the two batteries.

1. Position battery pack onto the Scooter frame as the diagram below.
2. Switch on your Scooter, the battery meter will now move to show the state of charge in the batteries and your Scooter is ready to drive 3.
3. Switch off your Scooter, fit the seat.

BATTERY PACK

Your **Luggie** has a lot of power for a small Scooter. Keeping it working to its maximum potential means that its two batteries must be maintained with full power. Nightly recharging, after use, will help you to give them a longer life and will ensure your **Luggie** is always ready to go when you are.

BATTERIES

Your **Luggie** is fitted with two sealed maintenance-free batteries, especially designed for motive traction use. This means that you do not have to worry about topping up the cells.



Warning : Do not attempt to remove the safety valves situated in the top of the battery. Failure to observe this warning will invalidate your battery guarantee. Your **Luggie** batteries are virtually maintenance-free because the electrolyte is immobilized in a special form and therefore will not leak out, even if the battery is accidentally Overturned.

Because your **Luggie** batteries are sealed they are more likely to be accepted for carriage on aircraft. Please consult your carrier prior to departure, as they will need advance warning that you wish them to carry batteries.

Please note: Each carrier reserves the right not to carry what may be termed 'HAZARDOUS CARGO'. **Luggie** cannot be held responsible for their final decision.

BATTERY CHARGER

The battery charger supplied (Fig 16), is special to your **Luggie** and it may not be suitable for any other powered mobility product. Only use the charger supplied with your **Luggie**; other makes of charger may permanently damage your batteries and would invalidate the Guarantee.



CHARGING THE BATTERIES

Your **Luggie** batteries will need to be recharged when the battery condition indicator gauge located on the handlebar console (Fig 7, page 8), is reading in the far left of the green scale or into the red sector. 'Green' indicates a full charge (to the far right), down to half charge (to the far left of the scale). 'Red' indicates that less than half charge is remaining in the batteries.

NOTE: The batteries will have a longer life if you do not use up all of the battery's power and recharge as soon as the battery condition gauge enters the red sector of the scale, rather than letting it go right over to the far left of the red scale. To charge your batteries follow these simple steps:

1. Switch off your **Luggie**.
2. Your Charger has two leads exiting from it. One lead has a 3-pin mains plug fitted to it. The second lead has a 3-pin round charging connector on its end. Connect the round 3-pin charging connector to the 3-pin charge socket, which is located in the centre rear body cover and marked "CHARGE" (Fig 17).



3. Plug the 3-pin mains plug from the Charger into a convenient wall socket and switch the wall socket on. Note: If you need to use an extension lead for your mains supply, make certain that it is safe and suitable for the charge current.

NOTE: Your **Luggie** will not drive if the charger is connected.

CHARGING STATUS INDICATION SYMBOL LIGHT COLOUR STATE OF CHARGER

Orange Mains Charging.

Green Mains Charge Complete

GENERAL

Depending on the depth of discharge, the minimum time taken to re-charge serviceable batteries fully will vary from 4 hours up to 6 hours. Please note that recharge time will vary between the minimum and maximum times indicated due to the varying states of battery use.

Please be patient

Trouble Shooting

- (1) If GREEN Indicator is off

- Check AC input .If it works normally, the battery charger may be defective.
- (2) If GREEN is working normally but Charging Indicator (ORANGE) is off
 - The polarity connection may be reversed.
 - The output connection may be short or open.
 - If the Charging Indicator (ORANGE) is still off, the battery charger may be defective.
 - (3) If the Charging Indicator (ORANGE) does not turn Green (Fully Charged)
 - The battery is not charged normally, please stop charging and have the battery repaired.
 - (4) If the Charging Indicator (ORANGE) turn Green (Fully Charged) immediately
 - The battery may be in well-charged condition.
 - If the battery is not fully charged, it may be defective. Please have it repaired.

ADVISORY NOTES

1. Disconnect from the mains supply before removing the 3-pin charge plug from the charge socket..
2. The **Luggie** Charger is for indoor use only: DO NOT EXPOSE TO RAIN OR MOISTURE.
3. Do not smoke or use naked flame near your batteries while they are being charged.
4. Do not use an extension lead unless absolutely necessary. Use of an improper extension lead could result in a risk of fire and electric shock.
5. Do not use the Charger if it has received a sharp blow, been dropped or otherwise mis-used in anyway. Return Charger to your Authorised **Luggie** Agent.
6. Do not dismantle the Charger, poke or drop objects through the slots in the Charger case.
7. Do not switch off, unplug or interrupt the re-charge cycle until the charging cycle has completed. Failure to observe this instruction can result in overcharging of the batteries.
8. There is a drive inhibit function on your Scooter. The Scooter cannot be driven when the Charger is plugged into your **Luggie**.
9. Slight heat on the exterior while charging. Avoid exposure to heat.

YOUR GUIDE TO SAFE AND LASTING BATTERIES

1. For longest life, your batteries should be re-charged after use. Preferably over night.
2. If your **Luggie** is not used for a period of time, a refreshing charge should be given every month. Never leave your batteries in a discharged condition. This is particularly important with sealed batteries as fitted to your **Luggie**. If your batteries discharge below a total terminal voltage of 12 volts (6 volts per battery), the charger supplied with your Scooter will not operate. Please consult your **Luggie** dealer.
3. If your **Luggie** has been stored away for some time, re-charge your batteries before re-using it.
4. Every six months, check the connections on the battery pack, making sure they are clean.

5. Batteries carry a limited guarantee from the original manufacturer which is subject to a stringent wear and tear clause. Any battery faults due to a defect in the original manufacture will normally become obvious within the first two months. Any gradual deterioration in performance after this period is normally associated with fair wear and tear, mis-use or accidental damage and, as such, is not covered by the manufacturer's warranty (This does not affect your statutory rights).
Note: If one battery becomes faulty during the guarantee period only that battery from the pair will be replaced.

CHARGING YOUR BATTERIES AWAY FROM YOUR SCOOTER

In circumstances when your Scooter is stowed in your car etc., your batteries can be recharged away from your Scooter with charging cable. The cable links together your battery pack and Charger. Simply connect the 3-pin plug on your battery pack. Connect your Charger to a convenient wall socket, switch on, your batteries are now being recharged away from your Scooter.

FREQUENTLY ASKED QUESTIONS

Why do my batteries require recharging?

Batteries are the fuel tank for your Scooter. They provide the vital energy to power your vehicle. When you ride your Scooter, the drive motor consumes the energy stored in the batteries. The battery's energy is gradually reduced over the period of driving time and will need to be replaced before you can use your Scooter again. Similar to the situation with a motor car, in that you need to replenish the petrol as it is used up as energy, likewise with your Scooter, you need to replace the used battery energy by re-charging the discharged battery cells.

How does my Charger work?

Your battery Charger is an intelligent automatic charging instrument. Your Charger's robust framework contains a number of quality components; namely a transformer, rectifier and complex control circuitry. The Charger receives the 230 volts domestic electricity supply via a standard 3-pin wall plug and reduces this voltage down to 24volts via a transformer. At the same time it rectifies the A.C., alternating domestic current into D.C., direct current. This matches exactly, the voltage characteristics stored by your Scooter's batteries. Your Charger automatically controls the re-charge cycle from the moment that you switch it on to the moment the green 'Charge Complete' light on the face of your Charger illuminates. When your battery's voltage is very low, the Charger will work extremely hard to replenish the spent energy. This is called the 'Bulk Charging' stage. As the battery voltage approaches 90% of the full charge capacity, the Charger reduces its output for the final stage of the re-charge cycle. The time taken from switch-on to the end of the bulk charging will vary, depending on the amount that the batteries have been used, or in time their age. At this point a timer is automatically started, to regulate the final stage of the charging cycle, this set time ensures maximum capacity and

battery life. The length of time to re-charge your batteries will vary from 4 up to 6 hours. This variation in time is due to the following factors:

1. Depth of discharge - The amount of energy you have removed from your batteries when driving your Scooter.
2. Battery age - This is due to the changes in their internal electrical resistance. Note very old batteries may take longer to fully recharge.

Where can I re-charge my batteries?

In most safe domestic environments, i.e. your house, garage or shed. Do not expose to rain or spray - for indoor use only. Later on in this information, there is reference to the way temperature variations can affect The performance of your vehicle. When charging your batteries where reasonably practicable, ensure that the battery Charger is close to the vehicle being charged so That the temperature of the battery charger and batteries are almost compatible. For example, a vehicle may be outside whilst the battery charger is inside. It is possible in this situation that the battery Charger will sense the inside temperature, whereas the batteries on the vehicle will be at the outside temperature, resulting in an undercharged situation. This situation must be avoided.

How often must I re-charge my batteries?

Many factors come into play when deciding how often to charge your batteries. You may use your vehicle all day on a daily basis or you may not use it for weeks at a time. Other factors such as driver and baggage weight, smooth or rough terrain, flat areas or inclines and speed must all be considered. With these variables you should concern yourself with two questions: HOW OFTEN should I charge and for HOW LONG? The Charger is designed so that it is impossible to overcharge your batteries. If you follow the guidelines below, your batteries will provide safe and reliable operation.

1. If you use your vehicle during the day, put it on charge as soon as you have finished using it. The Charger is fully automatic so it will not overcharge your batteries. Your vehicle will be ready each morning to give you several hours use. It is recommended that you charge your batteries after daily use until the green 'Charge Complete' light illuminates.
2. If you use your vehicle infrequently (once a week or less) you should charge it at least once per week until the green light illuminates. Remember: Keep your batteries fully charged and avoid deeply discharging them.
3. Storing batteries : Batteries should always be stored fully charged. Check once a month and recharge fully if needed. Sealed batteries can hold their charge for approx. 6 months. If they are left connected on the Scooter, remember key switches, meters and electronic circuits can drain the batteries rapidly. It is advisable to disconnect the batteries for prolonged storage. Store in a warm, dry room.

How can I ensure maximum battery life?

Simply put, a fully charged battery is a happy battery! A fully charged battery will provide reliable performance and extended battery life, so keep your batteries fully charged

whenever possible. Handling your batteries Extra care must be taken when handling batteries, if you decide to fold your vehicle for transportation etc. Dropped batteries, even from a very small height, can lead to damage of the internal components, causing premature cell failure. Your batteries are sealed and do not require maintenance. Do not force open the valves in the battery top.



Disposal

Caution : Used batteries must not be disposed of by means of a domestic refuse disposal unit (dustbin) etc. Please contact your Dealer to dispose of used batteries. Please note, he may charge for this service.

BATTERY WARRANTIES

The batteries fitted to your vehicle are guaranteed against a manufacturing or material defect for 6 months. Any battery faults due to a defect in manufacture or materials will be obvious within a few weeks of use. Your batteries are not guaranteed to perform to full capacity for 6 months. This will, of course be dependent on the actual use of the vehicle and how often the batteries are cycled i.e. discharged and charged. Gradual deterioration in performance and reduction in range is normal and associated with fair wear-and-tear, misuse or accidental damage. Under these circumstances, the warranty will not apply. It is a fact that some users due to their hectic lifestyle, weight or operating conditions, may wear their batteries out during the original battery manufacturer's guarantee period due to extensive use of their Scooter. This is termed 'Cycle Life'. Batteries have a defined number of discharge cycles they can make i.e. the more times you use your Scooter the more cycles your battery will make- the shorter their life span. If you take time to run-in your batteries properly, it will be worth it. Remember: how long your batteries will provide service is quite often a reflection of the care they receive. This is how to run-in your new batteries:

1. Fully recharge any new batteries prior to your initial use. This will bring your battery up to about 88% performance.
2. Ride your vehicle around the house or garden. Do not venture too far away until you become accustomed to the controls and feel of the vehicle. This will gently run-in your batteries.
3. Give your batteries another full charge and run the vehicle

again. The batteries will now perform to over 90% of their full potential.

4. After ten to fifteen charging cycles, the batteries will top off at 100% charge and last for an extended period due to your patience and care in the first few days of operation.

How can I get the maximum operating time per charge?

Rarely do we have an ideal driving situation such as a smooth, flat, hard terrain with no wind or curves and warm temperatures. More often, we are presented with hills, uneven and loosely packed surfaces, curves, wind, cold and heavy loads. All of these factors will affect the distance or running time per battery charge.

Here are a few suggestions for obtaining the maximum range per charge:

1. Always charge your batteries fully prior to your trip. It is a good idea to keep your Charger connected when the Charge Complete' (green) light is illuminated in the 'Top-Up' maintenance mode.
2. Plan your trip in advance to avoid inclines, kerbs and soft surfaces.
3. Limit your baggage weight to essential items.
4. Try to maintain an even speed to avoid stop and start driving.
5. Ensure recommended routine servicing of the vehicle's components, i.e. motors, brakes, electrical connections etc., is carried out as instructed in this Users Instruction Manual.

Warning : When working or disposing of your batteries



1. Do not allow metal objects to short out the terminals, your battery could explode causing you injury.
2. Do not allow your batteries to freeze. If frozen allow them to naturally thaw out before charging, failure to observe this warning may damage the batteries.
3. If you need to replace your batteries, contact your **Luggie** Agent. Only batteries supplied as original equipment on your machine will give you the best performance. When charging batteries make certain the positive and negative terminals are correctly assembled. Failure to observe this warning may cause an explosion, short circuit or fire.
4. Always handle batteries carefully, they are heavy. Wear protective gloves and glasses when handling.
5. Dispose of worn out batteries carefully, contact your local waste disposal authority.





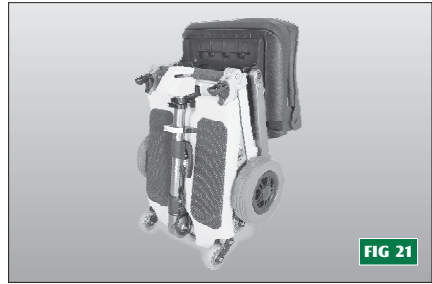
LITHIUM BATTERY



Install Lithium battery pack
(Fig 18&20)



Make certain the battery pack was fully locked.



Your Luggie will now allow to folding when Lithium battery was install.(Fig 21)



FIG 22



FIG 23



FIG 24



FIG 25

How to read the battery meter

Three sections was marked on your battery meter

- 1.Red: Low battery Voltage.
- 2.Light Green: When Lead-Acid battery was installed and fully charged, the needle will not go over this area.
- 3.Green: This section is for Lithium battery only , the needle will go to right end when battery was fully charged.

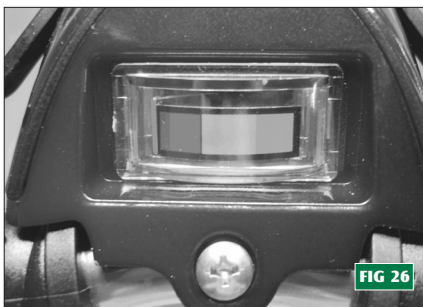


FIG 26



CARE & MAINTENANCE

Your **Luggie** like any other electro-mechanical machine will benefit from regular servicing by your **Luggie** dealer. You too, can help keep your **Luggie** in tip-top condition by following a simple guide to home maintenance.
Note: Only competent people should carry out service work.

SEAT UPHOLSTERY

A damp cloth and a little soapy water will keep your seat,

backrest and arms looking smart. Do not use abrasive cleaners as this will damage the coating. Upholstery can be damaged by chemical cleaners. The coating material can also **degrade over a period of time due to contamination** by natural oils in the hair and skin. Ultra-violet light can also reduce the life of the upholstery coating material. This is a normal ageing process and cannot be guaranteed (see exclusions in the Guarantee Terms page 30).

BODYWORK

The painted bodywork on your **Luggie** Scooter can be lightly washed with clean soapy water. Do not use abrasive cleaners or strong detergents. This could fade the color, an auto type shampoo works well. **Remove salt contact as this is very corrosive to bright metal parts.**



Caution : Do not hose down your **Luggie** with a powerful cleaner. Water could be forced into the electronics and cause permanent damage. On the painted finish, be cautious not to wash with a dirty cloth as this could scratch the paint finish. Auto polish can be used to keep the paintwork and bright chrome parts in pristine condition. The metal framework of your **Luggie** should be cleaned once a year and any paintwork damaged should be treated to prevent further attack from the elements. Do not store your **Luggie** in damp conditions. This may affect the electronics if left for very long periods of time. Moisture, if left unattended can cause deterioration on metal work, protect with proprietary cleaners.

ELECTRONICS

Servicing of the drive electronics and charger should only be carried out by your local **Luggie** service dealer. These units are sealed and should not be opened. **BROKEN SEALS WILL INVALIDATE YOUR GUARANTEE.**

Do not operate your Luggie in exceptional weather conditions ie. very heavy rain. Cover your machine up, if it is to be left unattended and outside for a long period of time.

Do not drive through deep water with your Luggie. This could damage the electronic speed controller. Sea and road salts are very corrosive and should be neutralised quickly.

DRIVE TRANSMISSION LUBRICATION

This unit is factory filled and will not normally need additional lubrication.

Note: Your **Luggie** transmission is filled with a special lubricant. Do not attempt to force grease into the transmission as this will contaminate the original lubrication and will invalidate your guarantee.



Caution : Take care when lifting the transmission, keep well away from clothing. It is normal to find a light film of lubrication around this part.

MOTOR BRAKES

Safety Note: For your own safety, we recommend that you check the function of your **Luggie** brakes prior to a journey.

Motor Brake: If the motor brake is functioning correctly and the drive is engaged you will not be able to push your machine when it is switched off. Or switched on with the speed control lever in the 'zero speed', central position.

Note: Check the Freewheeling Instructions first.

Driving Brake: Warning : When you drive your **Luggie** and you let go of the speed control lever your **Luggie** should reduce speed very quickly. If you Notice a change in the normal slowing/braking condition, and your **Luggie** does not slow down quickly, please do not use your machine, contact your **Luggie** distributor.



TYRES

Check the condition of your tyres regularly. Look for signs of wear, cuts and foreign objects lodged in the tread (Fig 27).

Warning : Your **Luggie** is designed with 'split' wheel rims. Do not remove wheel bolts with the wheel inflated.



TYRE SERVICING REAR WHEEL

To remove a rear wheel from your **Luggie** for the service of a tyre or tube carry out the following Instructions (only competent people should carry out this procedure).

1. Switch off your **Luggie**.
 2. Using a suitable body stand, lift the side of the vehicle you wish to service off the ground. Place the stand under the chassis. Care must be taken when lifting heavy loads, you may need a friend to help you. Care should also be taken when working on a stand.
Please be safe. Do not lift by the plastic bodywork.
 3. With the aid of a 13mm spanner(not supplied) remove the centre hub nut and washer.
 4. Slide the wheel from the mounting axle.
Rear wheels are fitted to the drive axle via a hub which locates onto a key. These wheels fit tight onto the axle and may need some pressure from a bearing puller onto the wheel hub to release them from the axles. Look for spacing washers and take care not to mislay the drive key which fits between the wheel hub and the axle shaft.
- To re-assemble the wheel simply follow the above procedure in reverse order noting the following points:

1. Make certain that you replace any spacing washers and keys in the order that they were removed.

2. Locking Screws: The special 'locking' centre hub screws may lose its effectiveness when it has been removed over a number of times. Screws should be replaced with a new part obtained from your **Luggie Agent**.

TYRE SERVICING FRONT WHEEL

All your wheel is fitted with a solid tyre which requires minimum maintenance. The tyre should be exchanged when the tread has worn out. Remove the wheel from the fork or turning axle shaft with the aid of 19mm and 21mm spanners. The frontwheel has two bearings which may have various spacing washers between the fork, please note the order of these washers. Remove the tyre from the wheel by following point 6 above for Rear Wheels, using a 10mm spanner and 4mm hex key. Re-assembly is the reverse procedure making certain that all washers supplied are replaced correctly.

BATTERIES

Keep your batteries well charged (see Battery Charging section of this manual). Keep batteries clean and in a dry frost-proof place. Your **Luggie Agent** will be able to test your batteries for their state of service.

Note: a charge may be made for this service.

IMPORTANT: It is not possible to predict the life expectancy of your batteries. This is mainly due to the different workloads a battery can be subjected to. Some **Luggie** users will use their vehicle every day and for long periods of time. Their batteries will receive a near total discharge, and the life of the batteries will be short (less than 12 months in some cases). Other **Luggie** users will use their machines less frequently, putting their batteries through a less demanding discharge lifestyle. These batteries will probably have a longer life in excess of 12months. This can only be a general guide and one cannot be more specific, due to other factors such as; motor loads, general service factors, working conditions, periods of non-use and abuse etc.

When you need to purchase batteries, always insist on the model fitted as standard equipment to your **Luggie**. Do not use less expensive car starter batteries. If in doubt, consult your local **Luggie** authorised agent.

Warning : Correct disposal of exhausted batteries is advised.

Please note: The charger supplied with your **Luggie** Scooter is specifically designed for sealed type batteries and may not work correctly with other battery designs. (See also Batteries and Battery Charging section of this manual).

LUBRICATION

The **Luggie** has been designed with low maintenance in mind. Wheel bearings and steering bearings* are sealed for life. The following points will need checking/lubricating at the following service intervals:

RECOMMENDED SERVICE INTERVALS

DAILY Check the following:

- Operation of motor brakes.
- Operation of driving brake.
- Operation of seat lock.
- Tyre condition.
- Batteries are fully charged.

Caution : Only drive your **Luggie** Scooter if it is in full working order.



WEEKLY Check the following and adjust as necessary:

- Check chassis locking mechanism.
- Arm rest tightening knobs.
- Allow battery charger to go through a full recharge cycle until the green light is illuminated.
- Clean paintwork with auto shampoo. Do not use a high pressure hose. Wax painted and bright metal parts.

SIX MONTHS Check and adjust as necessary:

- Tyre wear, replace as necessary.
- All fasteners and fittings for sound function.
- Tension of handle bar lock and hinge bolt.
- Battery connections.
- Inspect all electrical plugs and sockets for damage and good contact and fit.

ANNUALLY Check the following and adjust as necessary:

- Front wheel bearings for wear.
- Handle bar bearings.
- Chassis for sound welds.
- Rear Drive wheel hub keys.
- All wheel bolts.
- Drive axle securing bolts.
- Motor mounting bolts.
- Magnetic motor brake disc and function.
- Main wiring loom for damage.
- All steering components.
- Clean chassis and repaint any exposed parts.
- Replace any damaged axle seals.
- Cycle test charger for full operation function.
- Cycle test batteries for operating capacity (This test can be performed by your **Luggie Agent**).

Note the items listed under weekly and six months should be incorporated into this annual inspection.

LUBRICATION

Use a general purpose light lubricating oil on moving parts. All wheel bearings are factory sealed and should not normally need lubricating. Handle bar bearings should be lubricated with a general purpose bearing grease. Your drive axle is factory filled with a special lubricant and will not normally need replacing.

Caution : Do not mix other lubricants with this factory fitted drive axle lubricant. Failure to observe this caution will invalidate your guarantee.

Please note: These service intervals are a guide, more frequent use of your Scooter may require adjustment to these suggested intervals



RECOMMENDED AREAS FOR ADJUSTMENT STEERING COLUMN ADJUSTMENT



The steering column locking system works on a 'cam' principle to lock the column in the desired driving position. If you notice the column is not firmly held when the black cam operating lever is fully down, follow this procedure to readjust the 'cam' tension:

1. Push steering column forward as far as it will go with the locking lever released, ie. pushed upwards. Support steering column.
2. Release the 'black' clamping lever down and test that the tiller is tightly held in place; adjust 'clamp nut' until correct tension is achieved on clamp plates.



BASIC FAULT FINDING

If your **Luggie** will not start:

1. Check the power is 'on'. If it is, the battery condition indicator meter will be operating. If the status light on your console is flashing once per second, charge your batteries.

If the battery condition meter and the status light fail to operate when the switch is in the 'on' position, check the following:

1. Make sure the battery charger is not plugged into the battery pack charge socket, this will prevent drive.
2. Check the fuse: If your **Luggie** stops for no apparent reason.

The battery condition indicator meter operates and the status light flashes, your **Luggie** does not drive:

1. Check the status fault codes (page 24) indicated by the L.E.D. on your console flashing.
2. Check the freewheel lever is fully engaged.
If it is engaged you should not be able to push your machine, if disengaged your status light will flash five times.

If your **Luggie** does not slow down or behaves erratically:

1. Switch off the power.
2. Inform your authorised **Luggie** dealer.



Warning : If you find for any reason your **Luggie** does not reduce speed when you let go of the forward-reverse speed lever (Fig 8,page 8). Switch your **Luggie** off. The parking brake will activate immediately and stop your Scooter. Beware the scooter will stop very suddenly, brace yourself with the handlebars, sit back in your seat.



Warning : This operation should only be carried out in an emergency; continual use of this facility will damage the drive transmission and motor brake.

Inform your authorised Luggie dealer before using your machine again.



Warning : If you feel for any reason that your Scooter is not driving correctly or making an unusual noise, stop using the machine. Be safe, contact your Luggie dealer, he will be able to advise you.

IMPORTANT SPEED CONTROLLER INFORMATION GENERAL DESCRIPTION

The speed controller system incorporates a sophisticated micro-processor design. It is located under the rear cover of your **Luggie**. The in-built micro-controller continually monitors the Luggie Scooter's systems to ensure safe and reliable operation.

SAFETY CONDITIONS MONITORED INCLUDE

- Speed control system integrity.
- Internal voltages and circuits.
- Motor voltages and circuits.
- Freewheel speed limiting downhill.
- Battery voltage.

When the battery voltage is low, the 'status' indicator light situated on the control console (a light positioned on the power switch) will flash slowly as a warning to recharge your batteries. If the 'speed controller' detects a fault the light will flash rapidly, with the number of flashes indicating the nature of the fault. For example, the controller will not operate if the speed thumb lever (wig-wag) is not in the zero speed position with the Scooter switched 'on'. Return the speed lever (Wig-Wag) to the zero speed position, when the scooter will be allowed to operate normally once again. If your Scooter is switch 'on' but not operated for a set period of time (15 minutes approx) the speed controller system will automatically turn itself 'off' to conserve valuable battery energy. It can be turned on again by turning the on/off switch to 'off', and then to 'on' again.

FAULT DIAGNOSIS

Faults with the main speed controller are rare. Most faults on powered vehicles are associated with wiring or misconnections due to poor maintenance or incorrect installation of connectors when assembling the Scooter after transportation in a car.

If your **Luggie** Scooter should fail to operate you will be assisted in diagnosis and locating the area of the fault by observing the number of flashes emitted from the 'green' status light on your control console.

If your **Luggie** Scooter fails to operate and the status light is not illuminated, first check the points above mentioned under 'FAULT FINDING'. If your green status indicator light is flashing, first switch your Scooter to 'off' and back to 'on' again to see if the problem will clear. If the 'status' light continues to flash and your Scooter will not drive, refer to the 'STATUS/FAULTS CODE' and take the appropriate remedial action as advised in the 'comments' column. If in doubt consult the dealer from whom you purchased your **Luggie** Scooter.

CHARGING CIRCUIT FUSE

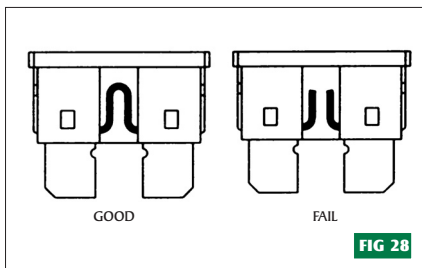
A fuse protects your Luggie charging circuit from receiving an overload of electrical current. The fuse used in the Luggie is the same type which is found on automobiles. In the unlikely event that a fuse should 'blow' and needs replacing (Fig 28) use a fuse of a 40amp rating. Please note this size of fuse has been selected to give your Scooter the best protection without premature blowing.



Warning : Do not use fuses with a higher rating than 40amps as this may cause permanent failure to the wiring and wiring connectors or personal injury.

If your green status indicator light is flashing, first switch your Scooter to 'off' and back to 'on' again to see if the problem will clear. If the 'status' light continues to flash The 40amp fuses are located inside the **Luggie's** Battery pack. The fuse is positioned in a black plastic housing which is sealed by a hinged lid. For access to a fuse remove the twelve screws located in the Battery pack cover, lift cover. Locate and lift the fuse block on it's wire, lift up the fuse lid and

withdraw the 'blown' fuse. Replace the blown fuse with recommended 40amp (orange) fuse, close fuse lid and replace fuse block. Reposition battery pack cover, refit twelve screws. **If the fuse continually fails, contact your Luggie supplier.**



STATUS FAULT CODES

FLASH CODE (No.of flashes)	FAULT DISPLAYED BY PROGRAMMER	Luggie SCOOTER CONDITION	COMMENT
1 Flash	Battery needs recharging	Driving still possible	The battery voltage has dropped below 23.3 volts in neutral. Recharge the batteries soon.
2 Flashes	Battery voltage too low	Drive inhibited	The battery voltage at Controller has dropped to 16.5 volts. Check the battery condition and the connections.
3 Flashes	Battery voltage too high	Drive inhibited	The battery voltage at the controller is greater the 32 volts. Check the battery condition and the connections. Suspect a charger malfunction.
4 Flashes	Current limit time out	Drive inhibited	The Controller has detected a shorted or overworked motor. Check the loom for shorts or check out the motor. Contact your Service Agent.
5 Flashes	Brake fault	Drive inhibited	Check the Freewheel Lever is fully engaged. Check the Park Brake and wiring for open or short circuits. Contact your Service Agent.
6 Flashes	Out of neutral when power switched on at key switch	Drive inhibited. Drive possible if neutral selected within 10 secs.	Return the speed lever to neutral. Re-adjust the speed lever neutral if necessary. Consult your Service Agent.
7 Flashes	Speed pot error (wig wag)	Drive inhibited	Check speed pot wiring for open or short circuits. Speed pot may not be correctly set up. Contact your Service Agent.
8 Flashes	Motor volts error	Drive inhibited	Motor or wiring is faulty. Contact your Service Agent.
9 Flashes	Other internal error	Drive inhibited	Contact your Service Agent.

SPEED CONTROLLER SETTINGS

The forward-reverse speed Controller is a state-of-the-art microprocessor designed to give smooth and safe operation. For maximum performance, protection and convenience the Controller is housed in a solid die cast aluminium case situated under the rear body cover.

The speed Controller, 'Dynamic' model R-series 50 is programmed by **Luggie** to obtain the maximum performance and safety for your **Luggie** Scooter.

Warning : Performance adjustments should not be made which could put the operator in a serious situation of control or braking. Performance adjustments should only be made by a person fully trained and conversant with the programming process and it's capabilities.



Warning : Incorrect settings could cause injury to the Scooter operator and/or to bystanders, or damage to the vehicle and/or surrounding property. If in doubt consult your **Luggie** Manufacturer.

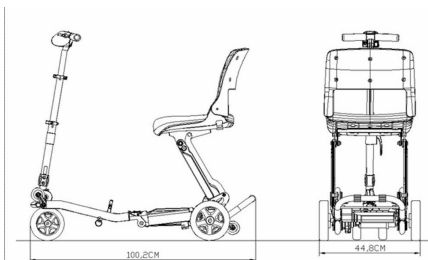




TECHNICAL SPECIFICATION

Model Code: Luggie

SPECIFICATIONS	
Overall length (Unfold)	100cm/39 inches
Overall length (Fold)	66cm/26 inches
Overall width	45.5cm/18 inches
Ground clearance	6.4cm/2.5 inches
Maximum load	114kgs/250lbs
Range up to	18km/11ml
Total Weight (excl. batteries)	23.5kgs/51.7lbs
Turning radius	90cm/35.5 inches
Maximum speed	6km/4mph
Li-Polymer Battery	8.5Amp



CLASSIFICATION Type 'B' indoor/with some outdoor capability (EN12184 : 1999) Class 2 (The use of invalid carriages on the highway regulations 1988).

Maximum safe climbing angle: 6° with 250lbs (113kg) rider.



Warning : The safe climbing angle is measured with the seat in the highest position, and a rider weight of 250lbs (113kg). The motor on your scooter is powerful and may be able to climb a steeper incline than the maximum safe climbing angle.

Exceeding the safe climbing angle may put you at risk of injury. On no account must you attempt to climb an incline of more than 6° as this will exceed the rear stability of your scooter.

Maximum speed: up to 4mph (6km/h) [+/- 10%] dependent on weight and manufacturing tolerances.

Range: Up to 12 miles (18km) between charges under ideal conditions. Note: Range varies with weight, terrain, temperature, battery condition etc. and is subject to manufacturing tolerances.. Note : Your batteries will require a period of "running in" before they will reach their optimum capacity. Up to 20 charge, discharge cycles can be expected

before full range is experienced. See also the battery charging section of this manual.

Tyre Size: Front 6 inch, Rear 7 inch.

Batteries: Li-polymer Battery 8.5/AH.

Charger:

AC input. 100-240 volt. 50/60Hz.

DC output 24 Volt. 5Amp

for Li-polymer battery.

Conforms to: EN60335-2-29 and EN12184.

Electrical System: 24 volt DC.

ADDITIONAL FEATURES

Drive system: Rear wheel, direct drive via sealed drive axle.

Motor: 24 volt DC. Permanent magnet, totally enclosed for outdoor use. Internal brushes. 3.0 Amp. (no load)
70W. 4100R.P.M.

Brake: Automatic dynamic regenerating braking system with spring activated magnetic solenoid parking brake. Free wheel facility.

Adjustable Locking Tiller: for driving comfort.

Proportional Speed Control: State of the art design for safety and smooth operation; incorporating 'Fault' diagnosis.

Contoured Seat: Adjustable for height, arm width and armrest angle.

Automatic Charger: Charging point is on the rear chassis cover (Fig 17,page 18).

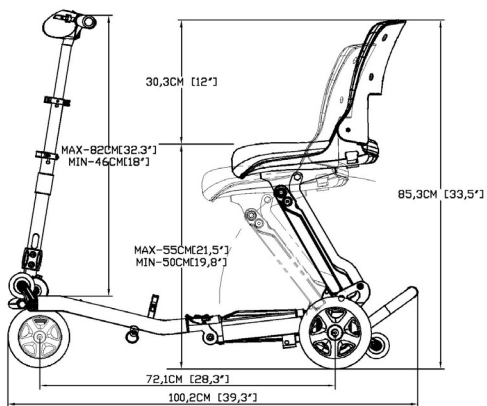
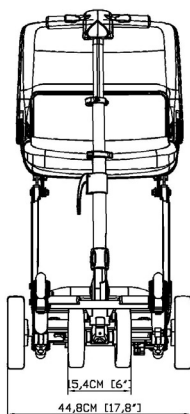
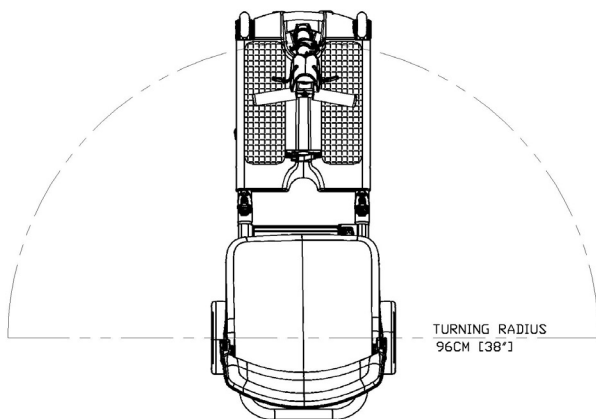
Complies with E.M.C. Directive 89/336/EEC

complies with Medical Devices Directives 93/42/EEC





SIZE SPECIFICATION-Luggie





ADVISORY SAFETY NOTICE



Warning : Radio wave sources may affect Scooter control. Your powered Scooter is designed to operate in appropriate environments, however radio wave sources such as radio or TV broadcasting stations, amateur (Ham) radio transmitters, two-way radios and cellular portable telephones can affect powered motorised Scooters.

The following warnings listed below should reduce the chance of unintended brake release or uncontrolled powered Scooter movement.

1. Do not turn on hand held personal communication devices such as citizen band (CB) radios and cellular 'phones, while your **Luggie** Scooter is turned on.
2. Be aware of nearby transmitters such as radio or TV stations, and try to avoid coming into close contact with them.
3. If unintended movement or brake release should occur, switch your **Luggie** OFF as quickly as it is safe to do so.
4. Be aware that adding accessories or components or modifying your **Luggie** Scooter may make it more susceptible to interference from radio wave sources. Note: There is no easy way to evaluate their effect on the overall immunity of your powered Scooter.

5. Report all incidents of unintended movement or brake release to your Luggie supplier, noting if there is a radio wave source nearby. He will then be able to diagnose your Scooter to eliminate any possible Scooter component failure. Please note a charge may be made for this service.

Your Scooter has been tested to the following standards with reference to EN12184. Emissions EN50022(B), Immunity IEC1000-4-3, E.S.D. IEC801-2.

Note : All figures, speeds, measurements and capacities shown in this manual are approximate and do not constitute specifications. Our policy is one of continual improvement. We reserve the right to alter, without notice, any weights, measurements or other technical data shown in this manual. If you require specific accurate data, please contact your **Luggie** authorised dealer.

Enjoy your Luggie



OPTIONAL ACCESSORIES

For information regarding these optional accessories, please contact your authorised Luggie agent. Luggie is a folding scooter, therefore, the optional accessories for Luggie will be limited and different from what a regular mobility scooter could be applied.

1. Suitcase (Available) (see Fig 29-a)
2. Armrest
3. Battery bag
4. In House charger
5. Back pack
6. Carrying bag (see Fig 29-b)

For the rest of accessories, you can inquire with our local authorised distributors.



Warning : The rear basket and crutch/cane holder will extend the dimensions of your Scooter. Please allow for this when turning. Do not overload carrying accessories as this will make your Scooter less stable.

Please note : Accessories illustrated are displayed on various models of Luggie Scooters.



FIG 29-a



FIG 29-b



FIG 29-c

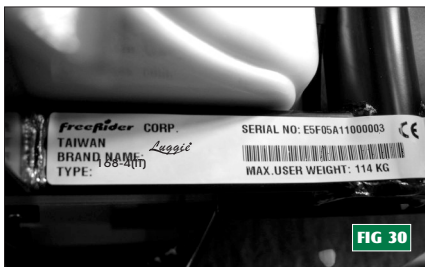


GUARANTEE TERMS

GUARANTEE TERMS

Please keep a note of your serial No.

(This is located on a plate on the front frame tube, under the front body cover).



Your **Luggie** is guaranteed for 12 months from the date of purchase against faults arising due to defects in manufacture or materials. This guarantee does not detract from, but is in addition to your legal rights. Parts replaced or repaired under the terms of this guarantee will be covered for the balance of the 12 months period. This guarantee applies only to parts supplied or approved by **Luggie®**.

Due to the individual prescription nature of this product. This guarantee is not transferable.

Note: Extended guarantee insurance can be arranged by your Luggie Distributor, he will be able to advise the extra cost of this cover.

Exclusions: This guarantee does not extend to consumable items which may need replacing due to normal wear and tear, namely tyres, tubes, punctures, lubrication, carpets, oil seals, gaskets, screws, brake shoes, mirrors, bulbs, upholstery, motor brushes, fuses, batteries, handgrips etc. or to damage to the product caused by mis-use, neglect or accident for which **Luggie** or its agent cannot be held responsible.

This guarantee does not apply if your Luggie shows signs of excessive wear and abuse, or has been modified without the authority of Luggie.

This guarantee does not cover the following items:

1. Any noise or vibration, which does not effect the quality and function of the machine.
2. Damage due to lack of maintenance or improper use or operation or storage.
3. Fees for the regular service inspection and maintenance.
4. Any fees incurred as a result of warranty repair, losses or compensation because of the inability to use the Scooter (telephone use, shipping, car rental, travel fees etc.).

METAL WORK: Components, such as the framework and bright metal parts require special attention and may deteriorate in certain conditions. Moisture and salt may corrode parts left unattended, proprietary auto cleaner polishes should be used to Prevent long term damage. Failure to clean and protect these components may void your warranty.

PAINT WORK: This guarantee does not cover deterioration of paintwork resulting from the lapse of time i.e. natural fading. It is the users responsibility to clean and protect the painted surfaces.

SPEED CONTROLLER: Servicing of the speed controller or battery charger must only be carried out by your local authorised **Luggie** distributor. Any attempt to open or dismantle these items render the guarantee void on that item.

BATTERIES: Batteries carry a limited 12 month guarantee from the original manufacturer which is subject to a stringent wear and tear clause. Any battery faults due to a defect in the original manufacture will normally become obvious within the first two months of use. (See batteries and battery charging section of this manual). Any gradual deterioration in the performance after this period is normal and associated with fair wear and tear, mis-use or accidental damage and as such is not covered by the manufacturers warranty. **(Batteries are guaranteed as single parts, only the failed part is replaceable).**

Warning : Do not attempt to open the battery vent plugs.



SERVICE CHECKS

In line with all mobility vehicles, your **Luggie** will benefit from regular service inspections to keep it in pristine condition. The frequency of these service inspections will depend on the amount of use your vehicle is put to. We strongly recommend you contact your local **Luggie** distributor to arrange for a service visit. (See Care & Maintenance Section of this manual).

Your **Luggie** product must be fully serviced at least every 12 months or more frequently if conditions and use require it.

Please contact your authorised **Luggie** distributor who will be able to advise you of his current costs affecting service visits. Please note: Non-warranty service costs are chargeable.

The warranty on your **Luggie** may not apply if routine maintenance is not carried out as defined in the 'Care and Maintenance' section in this manual.

WARRANTY SERVICE VISIT: If your **Luggie** should need attention due to failure as defined under the guarantee terms, please contact the distributor from whom you purchased your machine. The **Luggie** shown and described in this manual may not be exactly identical in every detail as your own **Luggie**. However, all instructions are still entirely relevant, irrespective of detail differences. If you are not sure of any details, please consult your **Luggie Authorised Distributor** before driving your Scooter.

DISCLAIMER

Luggie® disclaims all responsibility for any personal injury or property damage which may occur as a result of improper or unsafe use of its products. Mechanical or electrical defects will be dealt with on a contingency liability basis. The part or parts will be replaced or repaired but no responsibility for damage or injury can be implied to **Luggie®**.

Guidelines in this manual are intended to assist you in the safe operation of your Luggie powered Scooter. If you should have any questions about the correct operation of your Scooter, please contact your authorised Luggie dealer. Consult your doctor and therapist if you are in doubt about your ability to operate your Luggie Scooter.

It is the responsibility of the user to carry out daily inspections and regularly maintain and keep records of inspection and maintenance covered in this manual. The user is also responsible for the proper use of the Scooter as detailed in this manual.



SERVICE HISTORY

This section is designed to assist you in keeping a record of any service and repairs to your **Luggie** Scooter. Should you decide to seal or exchange your Scooter in the future this will prove most helpful to you. Your

Service agent will also benefit from a documented record and this book should accompany the Scooter when service or repair work is carried out. The service agent will complete this section and return the book to you.

DETAILS OF WORK CARRIED OUT	DEALER STAMP
	DATE INITIALS

DETAILS OF WORK CARRIED OUT	DEALER STAMP
	DATE INITIALS

DETAILS OF WORK CARRIED OUT	DEALER STAMP
	DATE INITIALS

DETAILS OF WORK CARRIED OUT	DEALER STAMP
	DATE INITIALS

YOUR LOCAL



FREERIDER CORPORTION

No. 22, Bengong 5th Rd., Gangshan Dist., Kaohsiung County, 820, Taiwan(R.O.C.)

Call us +886-7-6223093 Fax: +886-7-6230373

Email: sales@freerider.com.tw

<http://www.freerider.com.tw>

<http://www.luggiescooter.com.tw>