
Liteway 6 / 8

Owners Manual & Service Record



Liteway 6



Liteway 8

ELECTRIC MOBILITY EURO

Rascal 

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Electric Mobility Euro Ltd has designed these powerful, durable and lightweight scooters for frequent outdoor use. Despite their range and capability, they can be easily and quickly dismantled for transporting in the boot of a car.

So long as your scooter is maintained and operated in accordance with this manual it should last for many years, and provide you with freedom and independence.

Please read this manual thoroughly before using this scooter. If you have any doubts about warnings or instructions, ask your dealer for an explanation. If at any time you feel you may not be able to control the vehicle safely, do not drive, but consult your dealer for a solution.

If you think the scooter may be damaged, do not drive it but contact your dealer for advice.

We suggest that you keep this manual in a safe place. It contains essential information on the operation of the scooter and includes the maintenance records.

Notice

All Electric Mobility Vehicles are sold through authorised dealers. Make sure your dealer demonstrates all the features of the product prior to, or when, it is delivered.



Warning!

This manual contains important safety notices. Please take time to read and understand them. Ignoring them may endanger you or others.

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Dealer Information

**This is your contact number
for service and support**

Dealer Stamp

Telephone:

Email:

Product Model Number

Serial Number

Date of Purchase

Owner

For product information see serial number plate under the seat on the tubular cross member.

Manufacturer

ELECTRIC MOBILITY EURO

Electric Mobility Euro Limited

Canal Way, Ilminster, Somerset TA19 9DL

Company Registration in England No. 2419231

Features and Layout

Photo shows Liteway 8 model scooter. The Liteway 6 is similar – see specification for differences.



Safety Information



Read this manual thoroughly before driving or operating the vehicle. This handbook is applicable for all Liteway 6 & 8 Models.

If you have any doubt about the content of this manual phone your dealer to resolve the problem.
Please read this manual, and ensure your scooter is serviced regularly.



Within this manual there are important safety notices. They are clearly marked with the sign (left)
Make sure that you understand all these notices. If you have any doubt, phone your dealer.

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Intended use of the vehicle

This vehicle is designed for use by adults with a disability (up to the maximum recommended weight) who require a robust comfortable and transportable scooter that is ideal for shopping and other visits. Liteway scooters have been specifically designed to be quickly and easily disassembled for transportation by car. The scooters are intended for use in shopping areas and trips on reasonably paved areas. They can mount kerbs and small obstacles up to 2 inches – see manual for further information.

The Liteway 6 & 8 scooters have small wheels to enable easy transportation; they should not be used on very uneven surfaces or slippery grassy areas.

Liteway 6 model scooters are limited to 6 m.p.h. and are suitable for occasional road use.

The Liteway 8 models are capable of up to 8 m.p.h. and are designed for pavement and road use.
When on pavements both models should be used in the Lo setting and should not exceed 4 m.p.h.

Users could endanger themselves and others if they are not capable of driving this scooter safely. Dealers will advise on the most suitable vehicle from the Rascal range, but it is up to users to ensure that they have the manual dexterity to drive the vehicle, adequate sight and hearing to perceive danger in time, and can at all times operate the scooter safely in the expected conditions. If in doubt we suggest you consult a healthcare professional or your nearest dealer for advice on the most suitable scooter for your particular condition. Users should regularly assess their ability to operate their vehicle safely.



Safety Information

General Warnings

- Warning !** The operation of scooters can endanger the life of the driver or third parties. Any driver should always be fully capable of operating this vehicle safely.
- Warning !** Sitting for long periods may increase the chance of thromboses or pressure sores. Users prone to such conditions are advised to take medical advice.
- Warning !** The Liteway 6 & 8 model scooters have been designed and tested for drivers up to 21 stone or 300 lbs or 136kgs. This weight should never be exceeded.
- Warning !** Optional Front Basket. The basket mounted on the front has a weight limit of 10 lbs (4.5 kgs). Do not exceed this as it could affect steering. Do not carry or attach anything to the handlebars or controls as this could affect the driving safety.
- Warning !** Passengers, even children, should never be carried.
- Warning !** Electromagnetic interference may affect the driving of this scooter:
- Do not operate devices such as CB radios or mobile phones while the vehicle is switched on.
 - Avoid getting close to transmitter masts, such as television and radio stations.
- If your vehicle ever starts to operate by itself switch it off and report this to your Dealer.
- Warning !** The operation of scooters may affect sensitive electronic circuits such as alarm systems in shops.

Driving

- Warning ! Freewheel device** Before getting on the scooter, always check that the freewheel lever is in the "Drive" Position. When the lever is in the Freewheel position there is no braking and the scooter could run down a slope and cause injury or even death.

NEVER SIT ON THE SCOOTER WHEN IN FREEWHEEL.

- Warning ! Damage** Before driving off check the scooter for damage, particularly that which might affect the steering, or the attachment of the rear part to the front of the scooter
- Warning ! Correct Assembly** Before driving off always check the rear part is correctly assembled to the front of the scooter and the tiller is upright.
- Warning ! Battery Charge** Before driving off always check the battery indicator. If you are in any doubt, ensure the battery is fully charged before starting on a journey.
- Warning ! Slopes** On steep slopes the scooter could topple over. Never drive or turn across a slope. Always tackle obstacles, such as kerbs, straight on.
- Warning ! Speed** Turning at maximum speed might cause the scooter to topple over. Always slow down for turns. Never select Hi speed unless you intend to travel on a road. Beware that, in Hi setting, the risk of toppling when turning is increased.
- Warning ! Stopping** If the scooter stops suddenly when turning, the scooter might topple. Try not to brake when turning.
- Warning ! If the vehicle is left out in the sun,** surfaces could become extremely hot. Always try to park the vehicle in the shade.

Controls - Dashboard

Before driving your vehicle it is important to familiarise yourself with the controls. Do not attempt to drive the vehicle before reading the rest of this Handbook.

Dashboard Description

- 1. Hazard Warning Switch:** On the top left dashboard is a rocker switch marked with a triangular sign. This is for selecting the hazard warning lights. When selected the hazard warning lights and the switch indicator will flash.
- 2. Clock:** A battery operated clock is fitted. See separate instructions for setting and installing batteries.
- 3. Speed Selection:** The speed selector is on the upper right of the dash and is marked by a tortoise. To activate the Low speed setting, press the top of the switch and ensure the amber light illuminates. Press the bottom of the switch for the High speed setting. The light will go out. Low speed should always be selected for pavement use.
- 4. Speed Control Dial:** This controls the top speed of your scooter. It is integrated with the battery indicator. When the dial is turned anticlockwise to the left, this is its slowest speed, marked by a tortoise. As the dial is turned to the right the speed will increase to a maximum, marked by a hare. Set the speed before you move off. Do not adjust the speed control dial when the vehicle is moving.
Battery Indicator: This instrument shows the level of charge in the batteries. When in the green area the batteries are fully charged. When in the yellow area the batteries need recharging and when in the red area the batteries **urgently** need recharging. Note: When the vehicle is climbing a steep incline or starting off, the level may drop momentarily; this is normal.
- 5. Lights:** When the ignition key switch is on, the head and tail lights can be switched on using the rocker switch on the bottom left hand side of the dashboard. When the lights are on the switch blue light illuminates.
- 6. Indicators:** At the bottom of the dashboard there is a left and right indicator switch.
- 7. Horn:** Press the button on the bottom right hand side and the horn will sound. Release and the horn will cease.
- 8. Ignition Switch:** The ignition key switches power to the vehicle. Remember to remove key **when not in use**. Do not leave the ignition or lights on when not in use, especially when charging the vehicle.

Charging Point: The charging point is situated on the right hand side of the battery box (see charging Battery Charging section for further instructions).



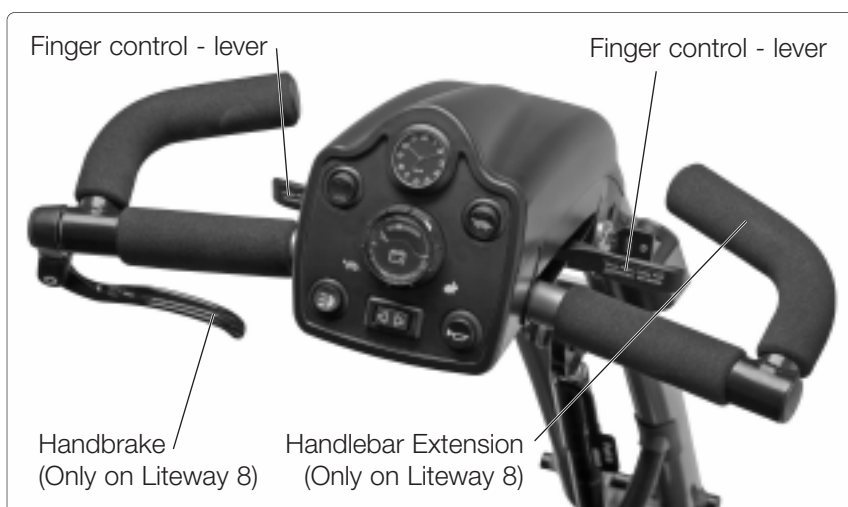
Controls - Driving Controls/Accelerator

Finger control

To operate, turn on the ignition.

Pull the right hand lever towards you and the machine moves forward. The more you pull the lever the faster the scooter goes. To brake, release the lever. Again the faster the lever is released the quicker you will stop. To reverse, pull the left lever towards you. Do not pull both levers at once.

Note. The controls can be changed for customers with a left-hand bias. Please contact your local dealer for information.



Freewheel Device

When the vehicle is switched off the brakes are automatically engaged. This is called "Failsafe Braking". Also, if the batteries are flat, the brakes are applied.

There may be occasions where you may wish to move the vehicle without power. To do this there is a Freewheel Device fitted.

The Freewheel device allows the vehicle to be pushed without power. To activate, first locate the lever. When standing behind the scooter, it is located on the right hand side of the rear of the vehicle below the battery box. See Illustration.

- Make sure the ignition is switched off.
- Move the lever down. The vehicle can now be pushed in Freewheel.
- Move the lever up to engage drive. The vehicle is now braked.
This is the normal operating position.

- **IF YOU ARE NOT COMPLETELY SURE OF THIS FEATURE CONTACT YOUR DEALER BEFORE OPERATING THE SCOOTER.**

Push the lever **DOWN** to enable the vehicle to be moved without power. Braking is disabled. **NEVER** sit on the vehicle with the lever in this position.

Pull the lever **UP** to the upper position. This is the normal operating position. The brakes are enabled, and the vehicle can only operate with the lever in this position



Brakes

There are two braking systems. The first works with the finger controls. When the finger control is released the scooter will automatically brake and bring the scooter to a stop. When the scooter stops the automatic handbrake will engage. This will stop the vehicle rolling forward or backward. When you start the handbrake will automatically disengage. If the battery should go flat the brakes automatically engage. Note that even when freewheel is selected, a secondary braking system is applied automatically to limit the maximum speed. You may notice this system when moving the scooter in freewheel. On the Liteway 8, an additional emergency handbrake is fitted to the left-hand side of the handlebars.

Warning! If the freewheel device is in “freewheel” the braking is disabled. Never select the freewheel device if the scooter is on a slope or could be pushed onto a slope.



Seat Adjustment

Armrest Adjustment

When getting seated on the scooter lift the armrest up. When riding always have the armrest in the down position.

If you require more room in the width of the seat undo the black knobs as shown. Slide the armrests in or out to suit. Tighten both knobs to clamp. (One on each armrest). To ensure that the user is sitting centrally, the armrests should always be adjusted to be equidistant from the centre of the seat.



Warning! Always check the knobs are tight **before** driving the scooter.



Swivel seat

This option allows easy access

1. **To operate**, locate the release lever under the seat.
2. **Push the lever forward** and the seat will release allowing it to rotate.
3. **Release the lever** and the seat will lock automatically.

Swivel seat is standard on Liteway 8, optional extra on Liteway 6.



Warning! Do not use this device if the vehicle is on a slope. Always check the seat is locked in the forward position before driving the vehicle.



Tiller Adjustment / Folding

The tiller can be adjusted to achieve a comfortable driving position. Push the tiller release lever, adjust the tiller to suit your driving position, and release the lever, ensuring the tiller is firmly locked in place.

The tiller can be folded down for transporting. A strong pneumatic spring strut is fitted to position the tiller in the correct upright position for driving.

By pushing the release lever at the top of the strut the tiller is free to move. Note that when restoring the tiller to the upright position the tiller should be held to prevent it from suddenly springing upwards.

- 1. Locate the lever** at the top of the spring strut.
- 2. With one hand** hold the tiller while pressing the locking lever towards the strut.



Warning! The tiller is now free to move. Move the tiller to the desired position and return the lever to the locked position. **Before driving, always check that the tiller is locked.**



Warning! Press the release lever and move the handlebars into the desired driving position. Once this is achieved release the lever and the handlebars will hold firm in this position. Before driving, always check that the tiller is firm and does not move.

Driving the Vehicle

Warning! Read this before driving the vehicle!

Whether or not this is your first mobility vehicle, please read these guidelines as all vehicles differ. Failure to do this may cause damage to you, a third party or the vehicle.



- 1. Before you set out,** do check the weather forecast. We suggest that you make sure you are wearing suitable clothing, whether your journey is long or short.
- 2. If you are taking medication** check with your doctor or physician that your ability to control the vehicle will not be impaired and do not drink alcohol and drive.
- 3. Only use the vehicle for the purpose its intended for.** Do not drive through deep water; transport more than one person; tow other vehicles or carry excess weight.
- 4. Before getting onto your scooter,** check the freewheel lever is not in the Freewheel position
- 5. Check the battery charger is disconnected.**
- 6. Check the two halves of the chassis are properly assembled.** (see assembly instructions)
- 7. Check your seating position.** Get comfortable, ensure your armrests are in the down position and set the speed switch to Low and the control dial to the low setting.
- 8. Make sure the way ahead is clear.**
- 9. Switch on the vehicle.** Check the battery level indicator is in the green area.
- 10. Pull in right hand lever slowly.** The vehicle will now move off. The more you pull the lever in the faster the vehicle will go.
- 11. To brake, release the lever.** If you become unsure or feel unsafe release the lever immediately.
- 12. As you get accustomed to the power** you can increase the speed.
- 13. Only select the Hi setting** when you are confident of driving safely. The Hi setting is only intended to be used to drive on the road; it should not to be used when you are driving on the pavement.

Driving the vehicle - hazards



Warning! Before driving the scooter you should be aware that, under certain circumstances it could become unstable and tip over. Your scooter has been designed to operate on paved, even surfaces and should not be used on rough terrain.

1. **Getting on and off the vehicle:** When getting on make sure that the vehicle is on level ground, and not in freewheel mode. Ensure that the armrests are secure. When getting off, park on level ground, turn off the ignition and remove the key before leaving your seat. Make sure you get off the vehicle in a safe area.
2. **Tiller Position:** Drive with the tiller in an upright position that feels comfortable with the controls in easy reach.
3. **Kerbs and Obstacles:** Do not ride up kerbs or obstructions higher than that in the Technical Specification Sheets. Always tackle obstacles head on. The sprung anti-tip rollers at the rear of the scooter may contact the kerb as you descend; this may cause a loud click. This is normal. Always try to avoid crossing a slope. If you have to cross a slope, take great care to avoid tipping. Never make sharp turns on slopes.
4. **Hills & Slopes:** Going Up Hill. Lean forward when going up. Make sure you have enough speed to climb the slope. **Do not stop or turn the vehicle around.** If you have to turn while climbing an incline, keep going until you reach a level area. If you have to start on an incline, lean forward and apply power slowly – do not start and stop. If you are not comfortable about tackling a gradient, consider an alternative route. Note: Always check that the battery level is high; going up hill takes a lot of energy. If the level drops too low the vehicle will cut out leaving you stranded.
5. **Hills & Slopes:** Going Down Hill. Lean back in the seat when going down, and turn the speed control dial to low. If you are not comfortable about tackling a gradient, consider an alternative route.

Do not drive across a slope– always drive straight up or down the slope. NEVER BACK DOWN A SLOPE!

6. **Turning:** Slow down and look in the direction you are travelling – If there is a blind corner sound the horn.
7. **Bad Weather:** If it is snowing or icy stay at home! Remember that ice, snow and slippery surfaces such as manhole covers, wet grass and drains could affect braking and steering. Use caution at all times.
8. **Pneumatic Tyres:** Your vehicle is fitted with pneumatic tyres to give a smooth, comfortable ride over uneven ground. Repair of tyres or wheels should be by your local dealer. If you are particularly concerned about punctures consult your local dealer for advice on puncture proofing products.



Warning! Dismantling the scooter involves lifting and handling heavy parts. Weights are given in the Technical Specification; consider if you need help in handling parts before you try to lift them. The Liteway Scooter has been designed to be easily dismantled and stowed in a car. Contact your dealer for advice on how best to transport your scooter in your vehicle. Be careful to avoid being pinched or having your hands crushed when lifting or handling parts. Wear gloves whenever possible.

Warning! This vehicle is not suitable for use as a seat for an occupant when in a motor vehicle.

Warning! When the tiller is folded down on the Liteway 8, the tension on the brake cables lock the front wheels. Do not pull the front chassis assembly along the ground as it will wear the tyres. This does not apply to the Liteway 6.

Transporting your Scooter

To transport your scooter you may need to dismantle it. Before starting, ensure you have an area of dry, flat, solid ground on which to dismantle your scooter, then follow these instructions;

1. **Move tiller** into the upright position.
2. **Lift the seat** off the chassis.
3. **Remove the under-seat basket.**
4. **Remove the batteries** and stow them carefully in the vehicle.
5. **Lift the release catch** below and in front of the seat.
6. **Gently separate the front chassis from the rear**, taking care not to move the rear chassis.
7. **A stand will drop down to support the rear chassis**; take care not to damage it when moving the rear chassis.
8. **Release the tiller** by operating the tiller unlock lever.
9. **Lower the tiller** to the horizontal position as shown.
10. **Secure the tiller** by attaching the strap provided to the handlebars.
11. **Stow the chassis** front and rear parts into the boot of the vehicle.
12. **Stow seat in the vehicle.**
13. **Ensure that all parts are secure** so that they cannot move while driving.





Warning! Assembling the scooter involves lifting and handling heavy parts. The Liteway Scooter has been designed to be easily assembled. Your dealer should advise you on the best way to assemble your scooter. Be careful to avoid being pinched or having your hands crushed when lifting or handling parts. Wear gloves whenever possible.

Warning! Never unload your scooter on sloping or uneven ground. It could run down the slope and injure someone.

Assembling your Scooter following Transportation

After removing your scooter from a vehicle, place it on an area of dry, flat, solid ground in preparation for assembly, then follow these instructions;

1. **Unstrap the tiller** from the handlebars.
2. **While holding the tiller to prevent it from springing up, depress the tiller release lever** and allow the tiller to return to the upright position.
3. **Manoeuvre the front part to join the rear chassis**, aligning the hooks so that they go over the rear cross bar and the pivot points are aligned.
4. **Lock the chassis together** by stepping gently onto the foot rest until the chassis clicks into place.
5. **Refit under-seat basket**, ensuring it is secure.
6. **Refit the batteries** ensuring they are correctly in position.
7. **Lift the seat** and install on the rear chassis ensuring it is fully engaged, and does not rock or rotate.
8. **Tiller adjustment.** Adjust tiller back into a comfortable position for driving.

Finally check the scooter is not damaged and it is properly assembled. You are now ready to drive the scooter away.



Battery Charging

Warning! When charging batteries **NEVER** smoke, or do this in a place where there are naked flames such as gas-fired heaters as, under exceptional circumstances, batteries may give off gases that could ignite and explode. Always make sure that the batteries are not damaged.



Warning! When charging batteries **NEVER** connect or disconnect the charger while it is still connected to the mains.



Charging Point (on rear chassis)



Liteway 6 Charger



Liteway 8 Charger

The charging socket is located on the side of the battery box. Remove the protective cover and push in the round silver plug. When the vehicle is charged remove the plug, and refit the protective cover to keep the water out. The battery charger has two or three small lamps depending on the number of batteries. When the charger is connected and switched on each lamp will show reddish orange. When each battery is charged the lamp will change to green. Ensure that **all** lamps show green before disconnecting

Connection Instructions

Correct battery charging prolongs the life of your batteries. When you receive your vehicle the batteries are only partially charged – always fully charge them before use preferably over-night. Always fit the full set of batteries before charging.

Never remove a battery while the charger is connected to the mains

- 1. Place your machine in an area that is dry and well ventilated. Make sure a power point is nearby.**
- 2. Check the vehicle is switched off and the key removed.**
- 3. Check the mains switch is off. Never connect or disconnect the charger with the mains on.**
- 4. Connect the charger to the charging point** as above.
- 5. Connect the mains plug** and switch on the charger.
- 6. The power illuminates orange/red when switched on.** The charger lamps change to green when each battery is fully charged.
- 7. Switch off the mains and remove the plug from the battery when fully charged.** Do not leave the charger plugged in with the power off. This will gradually discharge your battery.

The batteries are the lifeblood of your vehicle. Their characteristics can change depending on charging, temperature, usage and other factors.

Battery Charging (con't)

Listed below are guidelines to prolong battery life.

1. **After using your vehicle** always charge it at the end of the day even after a short journey.
2. **If you do not use your vehicle for a prolonged period**, place it on charge once a week, overnight.
3. **Always use the correct charger** with the correct batteries.
4. **If the batteries have been flat for a long time** (about 2 months) it is recommended you contact your dealer before charging.
5. **Do not charge the vehicle in the open** - it may rain and the battery charger is not waterproof.
6. **Keep the vehicle in a well-ventilated area** and away from any naked flame.
7. **Do not part charge the batteries.** Allow the charger to complete its cycle for every battery fitted.



Warning! If one or more batteries are damaged they could heat up when charging and, in an extreme case, explode.

Batteries are expensive to replace – it is wise to look after them. Batteries are heavy – make sure you always lift them correctly.

Notice

Return your unserviceable batteries to your supplier or ensure they are disposed of in accordance with the environmental regulations applicable at the time.

Charging Batteries Using the Optional Charging Stations

The optional Charging Station should be installed in a well-ventilated place, but not exposed to rain or damp. There should be no naked flames nearby, particularly gas heaters, electric fires or other sources of ignition. Before charging always fit the full set of batteries.

1. **Before installing the batteries**, check the mains switch is off.
2. **Install a full set of batteries** e.g. 2 for the Liteway 6 and 3 for the Liteway 8 Charging Station.
3. **Switch on the mains and observe that the charger has 2 or 3 lights illuminated** depending on the number of batteries fitted.
4. **Ensure that the charger lamps all change to green** indicating the batteries are fully charged.
5. **Switch off at the mains and disconnect the charger.** Do not leave the charger plugged in with the power off. This will gradually discharge your battery.
6. **Before fitting batteries to the scooter**, always check they are fully charged – all lights show green.



Warning! Never lift the Charging Station with the batteries fitted. Never remove batteries while a charger is connected to the mains.

User Maintenance

It is important for safety that you carry out the following checks before use.

1. **Visually check the machine for damage.**
2. **Visually check the tyres for damage** and check if they need inflating.
3. **Check the steering moves freely.**
4. **Check that the tiller is firm when in use.**
5. **Check the front chassis is securely attached** to the rear chassis.
6. **Check that the seat is located correctly** and locked in the forward position, ready for driving.
7. **Check the armrests are secure** and the knobs are tight
8. **Batteries should be fully charged.**
9. **Ensure basket below seat is secure.**
10. **Ensure the front basket is secure** (if fitted).
11. **Keep your vehicle clean** by washing with a sponge and soapy water – **never** use a hose.

Important - Possible faults As you get used to your vehicle you will get a feel for how it behaves. If something feels unusual, for instance the vehicle does not accelerate or brake smoothly; the brakes are not holding on a slope or the steering feels different, contact your dealer immediately and explain to the engineer exactly what the problem is.

Disposal Contact your dealer for advice before you consider disposing of your scooter. They will be aware of the environmental regulations in force at the time and will assist you to meet the applicable environmental legislation.

Troubleshooting Guide

This table is a guide to fault finding. The fault may be a simple fix. If you have any doubts phone your dealer.

Symptom	Solution
• Scooter does not move. when power is switched on.	• Batteries flat - check level. • Is the charger connected? • Freewheel is engaged. • Freewheel has been selected while power is on Ensure freewheel is not selected; switch off and on.
• Steering is loose or wobbly when driven.	• Check tyre pressure. • Check for tyre damage or punctures. • Damaged steering - contact dealer. • Loose seat - contact dealer.
• Vehicle behaves erratically when driven. judders or cuts out ?	• Possible electronic problems - contact dealer.
• Short Range	• Check tyre pressure. • Check battery level.

To save the batteries, the scooter controller has a sleep mode which is activated if the scooter is not used but left switched on for some time. To reset, switch the scooter off and then on again.

Scooter Diagnostic Functions

Your Scooter Controller provides diagnostic information in the form of flash-codes. The lamp on the battery indicator flashes to indicate a problem has been detected. When you switch on, the controller conducts a diagnostic test, if no fault is detected the lamp on the battery indicator will remain on. If there is a fault, a sequence of flashes will indicate what the fault is. For instance, if the lamp flashes twice in short succession and then again twice in short succession, this indicates a bad motor connection. If the lamp flashes 8 times there is a problem with the controller.

Number of Flashes	Indicated fault and Corrective Action
1	• Battery needs recharging or bad connection with batteries. Check connections, and recharge batteries.
2	• Bad motor connection. Request assistance from dealer who will check all connections between controller and motor.
3	• Short circuit between motor and battery connection. Contact dealer.
4 & 5	• Not used
6	• Controller inhibited from operation. Disconnect battery charger and check if this resolves the problem. Otherwise contact dealer.
7	• Throttle fault. Finger control levers must be in neutral (centred) position before key is turned on. Switch scooter off, centre levers, and switch back on. If fault persists, contact dealer.
8	• Controller fault. Inform dealer who will check connections & controller.
9	• Scooter left in freewheel or has a bad parking brake connection. Engage drive, and switch scooter off and on. If this fails to cure the problem, check parking brake and ensure it stops the vehicle. Inform dealer who will check brake and motor connections.
10	• Excessive voltage detected at controller. Check battery connections.

Notice

If the Lamp continues to flash then the controller has entered the Sleep mode and needs to be woken up. Turn key off and then back to the on position to reset.

Your dealer is there to help you but they can only do this if you give them as much information as possible. Remember correct information will get the problem fixed quicker and save you money. Phone the dealer and explain exactly what the problem is, recounting as much detail as possible. Tell them about the flash code; this will help the engineer to identify the problem before he calls to fix it. Your dealer is there to help you.

Additional Safety Information

Carrying Weight on the Vehicle

Optional Front Basket	The basket mounted on the front has a weight limit of 10lbs (4.5kgs). Do not exceed this as it could effect the steering.
Handlebars	Do not carry or attach anything to the handlebars. Anything attached to the handlebars will affect the control of the vehicle.
Floor Area	Do not use the floor area to carry things. They might fall off, or obstruct your movement.
Modifications	Unauthorised modifications could result in injury or permanent damage. Such modifications will invalidate any guarantees.
Other Items	Only fit approved products or accessories.

Child Safety

This product is designed to be operated by adults. Children should not be allowed to tamper with the controls or play on the vehicle. **Do not carry children as passengers.** The product is designed for single person use only. Keep all packaging well away from children. They could be harmed.

Additional Information

Owners Manual: Replacement copies are available from:

Electric Mobility Euro Ltd. Canal Way, Ilminster, Somerset, TA19 9DL Telephone: 01460 258100

Each vehicle comes with a copy of the BHTA Highway Code. Please make sure you read it. Telephone BHTA on 02077 022 141 for a new copy.

Important note on the BHTA Highway Code: On page 3 of the Code under "Consider Investing in a mobile phone" Read the section of this manual under "Safety Information". If in doubt contact your dealer.

For Information regarding other Electric Mobility products contact your dealer or log on to the Electric Mobility Website www.electricmobility.co.uk

Frequently Asked Questions

I want to transport my vehicle in the boot of my car ?

The Liteway scooters are designed to be dismantled to make it easier to load them into a car. There are various techniques. It depends on what type of vehicle you own and your physical capability. Make sure your dealer has demonstrated the easiest way of doing this.

How long will my batteries last ?

This is a difficult question as it depends on many factors. The life of a battery depends upon the number of cycles the battery goes through, the peak loads and on the conditions of use. Some general advice about battery care:

- Keep them charged, and do not let the batteries run completely flat.
- Ensure all your batteries are fully charged at the end of the charging cycle
- Batteries may not perform as well in very cold weather.
- Change your batteries if you find they are not performing as well as new.

Care can prolong the life of the batteries but remember that, in time, all batteries will fail to perform to specification.

What range can I expect ?

Range. The generally expected range is up to 14 miles on the Liteway 6 and 24 miles on the Liteway 8. However, range can be affected by many things such as:

- Temperature. Cold weather can reduce the output of the batteries.
- Type of terrain. Obviously climbing hills takes more energy than driving on the flat.
- Weight of the user.
- The condition and charge of the batteries.
- Faulty or old batteries
- Faulty charger

How long should I keep my vehicle before I change it?

It is important that the vehicle you have suits your needs and abilities. Your Liteway 6 or 8 model scooter should serve you well for many years but change it if at any time you feel it no longer meets your needs. Consult your dealer on the condition of your vehicle and remember vehicles of any type become more expensive to maintain the older they get.

Where can I find the scooter serial number?

The serial number can be found on the bar coded label on the cross bar directly underneath the seat. If you have difficulties finding this please contact your dealer.

Engineer's Checklist for Liteway 6 & 8 Models

Obtain all comments from the customer on the condition and serviceability of the scooter and then complete an Initial diagnostic road test. Record all defects to be corrected. Now check, test and complete the following:

- Wheel bearings wear and lubricate
 - Wheel alignment and tracking
 - Speed dial works correctly
 - Hi/Low speed selection works correctly
 - Wear or damage to tyres or wheels
 - Bodywork fixtures for damage, or cracking
 - Throttle play and adjustment
 - Battery box contacts & signs of corrosion
 - Check all cables for damage, abrasion, corrosion and that screening is intact. Replace as necessary
 - Steering bearing (adjust as required)
 - Tiller adjustment - functioning, wear and damage
 - Seat mounting for wear or damage
 - Revolving seat mechanism locates correctly – Liteway 8 or if fitted to Liteway 6.
 - Handlebar alignment
 - Motor brush wear
 - Motor speed check
 - Electromagnetic brake operation
 - Freewheel operation
 - Frame for damage or cracks
 - Front and rear chassis attachment points for corrosion, wear or damage
 - General check for corrosion, repair or protect as necessary
 - All operational controls work correctly
 - Battery condition and charger operation
 - Tighten all nuts & bolts
- Correct all defects found and determine if the vehicle is roadworthy.
- Final road test
 - Clean vehicle
 - Customer road test

Servicing and Maintenance

1. **This vehicle is designed for minimum maintenance.** However it is recommended that your vehicle is serviced at least once a year, by an approved Electric Mobility Dealer. If the vehicle is used constantly we recommend a twice yearly maintenance.
2. **Ensure the engineer stamps the Service Log** on completion for all servicing carried out on this vehicle. Keep all receipts for servicing and repairs with this handbook. This may add value when selling the vehicle.
3. **When the vehicle is due for its annual service make sure you report any concerns you have,** preferably when you book the service (See points to look out for below).
4. **On completion of the service, always test the vehicle** before the engineer leaves and make sure you are satisfied with the work carried out.

Points to look out for:

- Are there any strange noises from the wheels or does the frame creak when going over rough ground?
- Are the batteries charging up correctly – are all the full charge lights coming on after charging?
- Does the lamp on the battery indicator continue to flash ? If so what flash codes are showing ?
- Is the steering tight or is it loose when turning? Is there any play in the steering?
- Has anything come loose?
- Does the vehicle perform as well as it did when it was new?
- Are there noises or rattles that were not there before?
- Are there any signs of damage or cracking?

Guarantee and Warranty

Lifetime Frame Guarantee

Electric Mobility Euro Ltd guarantees the frame of its vehicles to be free from defect in materials and workmanship under normal use as described in this document for the lifetime of the vehicle. Should a defect in materials or workmanship appear, Electric Mobility Euro Ltd, will repair, or at its option, replace the frame to the original owner. This guarantee is limited to the original purchaser and is not transferable.

One Year Limited Warranty

Electric Mobility Euro Ltd warrants its products against defects in material and workmanship for a period of one year, providing the products are properly assembled, operated and maintained in accordance with the vehicle Owners Manual. This limited warranty is limited to the original purchaser. This limited warranty commences on the date of the original retail purchase or original use, whichever occurs first, providing the warranty card is fully and correctly filled out and returned to Electric Mobility Euro Ltd Customer Service Department within 15 days from receipt of product. Always check with your dealer or supplier to confirm that the one year warranty period is not reduced for any reason. If a defective part appears within the stated limited warranty period and the purchaser has given Electric Mobility Euro Ltd or its dealer immediate notice, the defective part will be repaired or at the option of Electric Mobility Euro Ltd, replaced with an equal or superior part. No allowance will be made for repairs to any equipment without the expressed written or verbal approval of Electric Mobility Euro Limited. Any description, specifications, samples, models, bulletins or similar materials used in connection with the sales of Electric Mobility Euro Limited products are for the sole purpose of identifying the equipment and are not to be construed as expressed warranties. This limited warranty applies only to the original purchaser of the equipment and is not transferable. Electric Mobility Euro Ltd shall not be liable for special, indirect or consequential damage. Electric Mobility Euro Ltd's liability on any claim of any kind including negligence for any loss or damage arising out of, connected to, or resulting from the order of the performance thereof the design, manufacture, sale, delivery, resale, direction and instructions, inspection, repair or use of any equipment covered by or furnished by, under this order, shall in no case exceed the price paid by the purchaser for the equipment. This limited warranty does not cover normal maintenance and service, or periodic adjustments necessitated by 'wear and tear'. Under no circumstances will charges for labour, consequential damage or repair expense be allowed after 30 days from receipt of product.

Technical Information Regarding EMI

Important Technical Information regarding Electromagnetic Interference (EMI)

The intensity of interference from electromagnetic energy is measured in volts per meter (v/m), which refers to the strength of the electrical source (voltage) as it relates to the distance away from the object being considered (in meters). Resistance of a scooter/wheelchair to certain EMI intensity is commonly called its "immunity level". 20 volts/meter is a generally achievable and useful immunity level against interference from radio wave sources (the higher the immunity level, the greater protection).

Your scooter has been tested and found to meet the required immunity level from Electromagnetic Interference (20v/m): the recommended density of interference from electromagnetic energy.

Warning! Even with the immunity level of 20 volts/meter, certain precautions must be followed to ensure your scooter/wheelchair will not be affected by outside electromagnetic sources.



- Do not operate devices such as CB radios or mobile phones while the vehicle is switched on.
 - Avoid getting close to transmitter masts, such as television and radio masts.
 - Note you may experience interference when close to ambulance or fire stations.
- If your vehicle starts to operate by itself switch it off and report this to your Dealer.

Technical Specification - Liteway 6

Wheelchair type Class	Class A, B or C	Class B with turning restrictions
Department of Transport Class	Class 1 2 or 3	Class 2 with turning restrictions
Overall dimensions fully assembled	length x width x height mm (in)	1200 (47) x 590 (23) x 930 (37)
Dimensions seat removed tiller folded	length x width x height mm (in)	1200 (47) x 590 (23) x 540 (21)
Maximum carry capacity	kg (lb)	136 (300)
Mass (weight) including batteries	kg (lb)	63.6 (140)
Battery voltage and capacity	volts and ampere hours	2 sets of 12V 15Ah x 2
Mass (weight) of battery pack	kg (lb)	2 sets of 10 (22)
Type of seat		Stadium (Fish-On) seat
Mass (weight) of seat	kg (lb)	9.4 (20.7) (w/o swivel)
Mass (weight) of front section	kg (lb)	14.7 (32.4) including basket
Mass of (weight) of rear section	kg (lb)	18.1 (40)
Wheel size	front/rear mm (in)	230 x 65 (9 x 2.5) / 230 x 65 (9 x 2.5)
Type of tyres	type	Pneumatic
Tyre pressures normal	front/rear p.s.i. (bar)	30 (2) / 30 (2)
Tyre pressure maximum - not to be exceeded	front/rear p.s.i. (bar)	35 (2.3) / 35 (2.3)
Maximum speed	km/h (m.p.h.)	9.6 (6)
Minimum braking distance from maximum speed	metres	1.5
Range on full charge and flat ground	km (miles)	Up to 22 (13.8)
The turn-around width	m (ft)	1.40 (5.5)
The maximum safe slope	degrees of slope	8° - Do not exceed the scooter may topple
The maximum climbing ability facing upwards	degrees of slope	8°
Ground clearance	mm (in)	82 (3.2)
Maximum obstacle climbing ability	mm (in)	50 (2)
Maximum safe descendable kerb height	mm (in)	50 (2)

Technical Specification - Liteway 8

Wheelchair type Class	Class A, B or C	Class C
Department of Transport Class	Class 1 2 or 3	Class 3
Overall dimensions fully assembled	length x width x height mm (in)	1200 (47) x 590 (23) x 1220 (48)
Dimensions seat removed tiller folded	length x width x height mm (in)	1200 (47) x 590 (23) x 540 (21)
Maximum carry capacity	kg (lb)	136 (300)
Mass (weight) including batteries	kg (lb)	82 (180.6)
Battery voltage and capacity	volts and ampere hours	3 sets of 12V 15Ah x 2
Mass (weight) of battery pack	kg (lb)	3 sets of 10 (22)
Type of seat		Captain Seat
Mass (weight) of seat	kg (lb)	15.3 (33.6) (w/ swivel)
Mass (weight) of front section	kg (lb)	17.2 (37.9) including basket
Mass of (weight) of rear section	kg (lb)	18.1 (40)
Wheel size	front/rear mm (in)	230 x 65 (9 x 2.5) / 230 x 65 (9 x 2.5)
Type of tyres	type	Pneumatic
Tyre pressures normal	front/rear p.s.i. (bar)	30 (2) / 30 (2)
Tyre pressure maximum - not to be exceeded	front/rear p.s.i. (bar)	35 (2.3) / 35 (2.3)
Maximum speed	km/h (m.p.h.)	12.4 (7.8)
Minimum braking distance from maximum speed	metres	1.6
Range on full charge and flat ground	km (miles)	Up to 38 (23.8) 300lbs rider
The turn-around width	m (ft)	1.40 (5.5)
The maximum safe slope	degrees of slope	8° - Do not exceed the scooter may topple
The maximum climbing ability facing upwards	degrees of slope	8°
Ground clearance	mm (in)	80 (3.2)
Maximum obstacle climbing ability	mm (in)	50 (2)
Maximum safe descendable kerb height	mm (in)	50 (2)

Brochure Request

Do you have a friend or colleague that would be interested in an Electric Mobility product?
If so cut out this coupon and send it to the address shown on the back of the manual.

My Dealer's Company name is:	
☐	Please can I have a free no-obligation home demonstration.
☐	Please send me a brochure of the range of products.
My friend's name is:	
My friend's address is:	
County:	Postcode:
My friend's telephone number is:	

If you are visually impaired, please contact the Company to discuss your requirements. However, you should not drive a vehicle in a public place if you cannot see well enough to ensure your own, and others safety.

Postage will be paid by: Electric Mobility Euro Ltd., FREEPOST (SWBI 1045), Ilminster, Somerset, TA19 9ZA



Dealer Information - Warranty Card

This section is to be filled out by the Dealer and sent to Electric Mobility Euro Ltd.

Dealer:	
Product Description:	
Serial No.:	Invoice No.:
Customer Name & Address:	
County:	Postcode:
Telephone No.:	
Date received at Dealers:	

Postage will be paid by: Electric Mobility Euro Ltd., FREEPOST (SWBI 1045), Ilminster, Somerset, TA19 9ZA



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Service Log

Notice for the Service Engineer.

Please make sure this part is stamped and dated after each service.

Dealer stamp - 1st Service

Dealer stamp - 2nd Service

Dealer stamp - 3rd Service

Dealer stamp - 4th Service

Dealer stamp - 5th Service

Dealer stamp - 6th Service

Dealer stamp - 7th Service

Dealer stamp - 8th Service

Liteway 6 / 8 Scooters

Manufactured by



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