
Rascal Powerchairs Models P200 & P200 Mini

Owner's Manual & Service Record



RASCAL
MOBILITY

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Issue 2: 03/2015



P200 with
optional lighting

Electric Mobility Euro Ltd offers the Rascal P200 and P200 Mini powerchairs for convenient indoor and outdoor use. The P200 and P200 Mini are robust powerchairs that provide comfortable adjustable seating positions for people with disabilities. These powerchairs feature swing away footrests, adjustable seat angle, back angle and armrests to enable flexible personalised configurations. The P200 model can also be supplied with an optional lighting system. Please see the Specifications section of this manual for full details.

Provided that these powerchairs are operated and maintained in accordance with this manual, they should provide many years of reliable service.

Please read this manual thoroughly before using the powerchair. 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 powerchair may be damaged, do not drive it but contact your dealer for advice.

We suggest that you keep this manual in a safe place as it contains essential information on the operation of the powerchair and service 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

Nithsdale Wheelchairs

Telephone:

Email:

Product Model Number

Serial Number

Date of Purchase

Owner

Manufacturer

**ELECTRIC
MOBILITY**

Electric Mobility Euro Limited
Canal Way, Ilminster, Somerset TA19 9DL
Company Registration in England No. 2419231

Features and Layout

Photo shows the P200 powerchair with optional lighting. See the Technical Specification sheet for full details of both models.



Safety Information - General



Read this manual thoroughly before driving or operating the vehicle.

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 powerchair 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, contact your dealer.



Book symbol: This symbol appears on the product. Please read this product manual before assembling or operating the powerchair.



Pinchpoint symbol: Wherever you see this sign there is a nearby risk of injury owing to a pinch or crushing point.



Tip symbol: This sign indicates advice on how to get the most from your powerchair.

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Intended use of the vehicle

These vehicles are designed for use by adults with a disability (up to the maximum recommended weight – see Technical Specification) who require a robust, adjustable, comfortable powerchair with a good range.

The P200 and P200 Mini powerchairs are intended for use in the home, in shopping precincts and trips on paved or other smooth hard surfaces. Kerbs should be avoided, but these powerchairs can mount kerbs and small obstacles up to that specified in the Technical Specification.

Users could endanger themselves and others if they are not capable of driving their powerchair safely. Dealers will advise on the most suitable vehicle from the Electric Mobility 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 powerchair 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 powerchair for your particular condition. Users should also regularly assess their ability to operate their vehicle safely.

These powerchairs have relatively small front wheels to allow for enhanced manoeuvrability, however this makes them unsuitable for use on uneven, pot-holed, rutted or slippery surfaces such as grass.



Safety Information

General Warnings

Warning ! The operation of powerchairs 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 ! These powerchairs have been designed and tested for drivers up to the maximum user weight recorded in the Technical Specification. This weight should never be exceeded.

Warning ! Do not exceed the specification; do not modify this powerchair or use it other than as a powerchair.

Warning ! Passengers, even children, should never be carried.

Warning ! Electromagnetic interference may affect the performance of this powerchair:

- 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 any powerchair may affect sensitive electronic circuits such as alarm systems, garage door closing mechanisms, or automatic doors in shops.

Warning ! Before driving please read the "Driving Your Vehicle" section of this manual.

Warning ! Freewheel device Before getting on the powerchair, always check that both the freewheel levers are in the "Drive" Position on both the motors. When the levers are in the freewheel position there is no braking and the powerchair could run down a slope and cause injury or even death.

NEVER SIT ON THE POWERCHAIR WHEN IN FREEWHEEL.

Warning ! Transferring On and Off Do not attempt to get on or off your powerchair unless it is switched off, at rest, and on a stable, level surface. Never get on or off on a hill.

Warning ! Damage Before driving off check the powerchair for damage, particularly that which might affect the controls, wheels and drive motors.

Warning ! Footrest Before switching on your powerchair, always put the footrests down and place your feet firmly on them. If you drive forward with your feet on the ground, your feet could become trapped under the powerchair and serious injury could result. When getting on or off your powerchair we recommend either swinging the foot rests away or folding the footrest plates into the vertical position.

Warning ! Armrests Do not use armrests as a support when getting in or out of your powerchair. Make sure they are secure before you start off otherwise you might fall out.

Warning ! Seat Belt It is advisable to use your seatbelt whenever you use your vehicle (not supplied on all vehicles).



Warning ! Battery Charge Before driving off always check the battery indicator. If you are in any doubt, ensure all the batteries are fully charged before starting on a journey.

Warning ! Castoring Be aware that, if you set off when the castors are not straight, the initial movement could be sideways.

Warning ! Power Unless there is an emergency, do not switch the power off when moving. The powerchair will stop very suddenly. Centre the joystick and your powerchair will come to a controlled stop.

Warning ! Slopes On steep slopes the powerchair could topple over. 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. Never drive on slippery or icy slopes. Never back down a slope as your powerchair could tip over backwards. If you are not comfortable with the hill gradient, consider an alternative route. See Driving Your Vehicle – Hazards for more advice.

Warning ! Kerbs You should try to avoid driving up or down kerbs as this may cause the powerchair to topple. Use access ramps wherever possible. Ensure that the backrest is upright before tackling a slope or a kerb. Never attempt kerbs greater than that in the Technical Specification. If you have to climb or descend a low kerb, always tackle it straight on. Lean forward when climbing a kerb and back when descending a kerb. See Driving Your Vehicle – Hazards for more advice.

Warning ! Speed Turning at maximum speed might cause the powerchair to topple over. Always slow down for turns. Always slow down when amongst pedestrians and ensure you do not run into them.

Warning ! Stopping If the powerchair stops suddenly when turning, the powerchair might topple. Take care when turning.

Warning ! Leaning Over Do not lean sideways, as this could cause the powerchair to topple.

Warning ! Escalators Never drive this powerchair onto an escalator as this could result in severe injury.

Warning ! Driving in poor visibility powerchairs are not easily seen. Consider wearing a high visibility jacket to warn others of your presence. Avoid driving in bad weather conditions.

Warning ! Roads These powerchairs are not for use on roads, apart from crossing roads at designated places.

Warning ! If the vehicle is left out in the sun, surfaces could become extremely hot. Always try to park the vehicle in the shade.

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

Warning ! Entanglement Do not wear clothing or carry items on the powerchair that could become entangled in wheels or other moving parts whilst operating the powerchair. Severe injury may result.

Warning ! Hot Surfaces If the powerchair is left out in the sun, surfaces could become extremely hot. Always try to park the vehicle in the shade.

Warning ! Reversing Always take particular care when reversing the powerchair as injury to other people may occur if safe distances are not maintained.

Controls - Joystick - Standard Version

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.



Description of controls

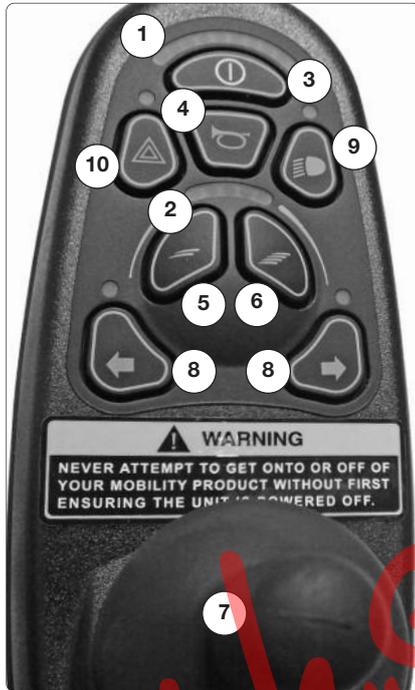
- 1. Battery Indicator:** These lights show the level of charge in the batteries. When the green lights show, the batteries are fully charged. When the yellow and red lights show, the batteries need recharging and when only the red lights show the batteries **urgently** need recharging. Note: When the vehicle is climbing an incline or starting off, the level may drop momentarily; this is normal.
- 2. Maximum Speed Indicator:** This shows what speed setting has been selected by the controls 5 and 6. The more lights that show, the higher the maximum speed. It is advisable to set the maximum speed at the slowest setting until you are familiar with controlling your P200 series powerchair.
- 3. Power On Off Button:** Switch the power on and off using the power button. Remember to switch off **when not in use**. Do not leave the power on when not in use, especially when charging the vehicle. Note that this switch can also be used to “lock” the powerchair to prevent it being used, or stolen. (see unlocking and locking page 11)
- 4. Horn:** Press the button and the horn will sound. Release and the horn will cease.
- 5/6. Speed Controls:** These controls enable you to increase or decrease the top speed of your powerchair. When the speed increase button (6) is pressed the maximum speed the powerchair can achieve is increased; when the decrease button (5) is pressed the maximum achievable speed is reduced. The speed indicator shows a number of lamps to indicate the maximum speed set. Set the maximum speed to low until you are confident of driving your powerchair safely. Do not adjust the speed when the vehicle is moving, but reset it when you are stationary. If you become alarmed at your speed release the joystick and the vehicle will slow down immediately.
- 7. Joystick:** The more you move the joystick forward, the faster you will go forwards. The more you move the joystick back, the faster you will go backwards. Release the joystick and the powerchair will stop moving. Move the joystick to the right and you will turn to the right; move it to the left and you will turn left.

Charging Point: The charging point is situated beneath the joystick controller at the front (Fig.1).



Controls - Joystick - Lighting Version

If your power-chair was supplied with the optional lighting system, then the joystick will have additional lighting controls associated with it. 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.



Description of controls

- 1. Battery Indicator:** These lights show the level of charge in the batteries. When the green lights show the batteries are fully charged. When the yellow and red lights show the batteries need recharging and when only the red lights show the batteries urgently need recharging. Note: When the vehicle is climbing an incline or starting off, the level may drop momentarily; this is normal.
- 2. Maximum Speed Indicator:** This shows what speed setting has been selected by the controls 5 and 6. The more lights that show, the higher the maximum speed. It is advisable to set the maximum speed at the slowest setting until you are familiar with controlling your P200 series powerchair.
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- 7. Joystick:** The more you move the joystick forward, the faster you will go forwards. The more you move the joystick back, the faster you will go backwards. Release the joystick and the powerchair will stop moving. Move the joystick to the right and you will turn to the right; move it to the left and you will turn left.
- 8. Turn indicators:** Press the indicator button corresponding to the direction you wish to turn to and the corresponding indicator lamp will flash. Press the same button again to switch off the indicator lamps. Note that a corresponding LED on the Joystick panel will flash when the function is active / on.
- 9. Front and rear position lighting:** Press this button to switch on the front (white) and rear (red) lighting. Press the button again to switch off the lighting. Note that a corresponding LED on the Joystick panel will light when the function is active / on.
- 10. Hazard lighting:** Press this button to flash all indicators together. Press again to switch off. Note that a corresponding LED on the Joystick panel will light/flash when the function is active / on.

Charging Point: The charging point is situated beneath the joystick controller at the front (Fig.2).



Controls - Battery cut-out

Your powerchair is equipped with 2 battery cut-outs, one in each battery box. (Fig.3) that are designed to operate in the unlikely event of an electrical or electromechanical overload and are located on the upper edge section of the two battery boxes. If one or other of these activate, all power will be cut from the batteries to the powerchair. These devices can be re-set by pressing the button on each battery box shown in the illustration. Should it/they activate for a second time, please seek advice from your dealer.



Controls - Driving Controls/Accelerator

Joystick control - To operate, turn on the power.

Firstly make sure your wrist is supported on the armrests. If it is not supported, a jolt may cause a movement of the joystick and an involuntary change in direction of speed. Find an open level area with no obstructions to practice controlling the vehicle until you are confident that you can drive safely. Note. The controls can be changed to the other arm for customers with a left-hand bias. Please contact your local dealer for information.

Going Forward or Backwards: Gently push the joystick away from you and your powerchair will move forward, pull it backwards and it will move backwards. Release pressure on the stick and the vehicle will stop. The further you move the stick the faster you will go.

Turning Left or Right: Push the joystick to the right and your powerchair will move right, move the joystick to the left and the powerchair will go left. Practice turning while in gentle forward motion to familiarise yourself with driving the vehicle.

Braking: Whenever the joystick is in the central position, the automatic brake will operate. Practice stopping on level ground to ensure that you know how quickly you can expect your powerchair will come to a stop.

Sleep Mode: With the power on, If you do not operate the joystick for a while, then the controller will go into "sleep mode" to preserve the batteries. Any button press or joystick movement will re-activate the controller and you can then drive normally.

Joystick Disabling during Start-Up: To prevent sudden unexpected movements, the joystick is disabled during start-up. If the joystick is operated when the power button is pressed, the lamps will flash slowly. By centring the joystick this indication will stop and the joystick will operate normally.

Note: The controller has a diagnostic mode. The lamps will flash to indicate that the controller has detected an error or fault. If this happens refer to the diagnostic tables at the back of this manual, unless it is simply the result of the joystick not being central at start up, which can be cleared as above.



Locking Your Vehicle for Security. This powerchair controller is equipped with a keyless lock feature which can be used to restrict use by unauthorised individuals.

To Lock

- Turn 'ON' power (depress and release power button).
- Depress and hold the power button. After a second the controller will beep. Release the power button after the beep.
- Push the joystick forward until the controller beeps.
- Pull the joystick backward until the controller beeps.
- Release the joystick (there will now be a long beep - the powerchair is now locked).

To Unlock

- Turn 'ON' power (depress and release the power button).
- Push the joystick forward until the controller beeps.
- Pull the joystick backward until the controller beeps.
- Release the joystick (there will now be a long beep - the powerchair is now unlocked).

Ask your dealer to demonstrate all these functions and make sure you can operate all the modes of the controller before you take your vehicle home.

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 on each motor. The freewheel device allows the vehicle to be pushed without power. To activate, first locate the levers on the end of each drive motor. - (Fig.4).

- Make sure the ignition/power is switched **off**.
- Move **both** the levers into the freewheel position. The vehicle can now be pushed in freewheel. Note that if the levers are too stiff to move a small movement of the chair back or forward will make it easier to operate the levers. Get your dealer to show you.
- Move both the levers to engage drive (Fig.5). 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 POWERCHAIR.

- Push the lever **DOWN** and rotate sideways towards the drive wheel to enable the vehicle to be moved without power. Braking is disabled. **NEVER** sit on the vehicle with the lever in this position.
- Rotate the lever to the **DRIVE ENGAGED** position This is the normal operating position. The brakes are enabled, and the vehicle can only operate with the lever in this position.

NEVER SIT ON THE POWERCHAIR WHEN IN FREEWHEEL UNLESS AN ATTENDANT HAS FIRM CONTROL OF THE POWERCHAIR. NEVER ALLOW AN ATTENDANT TO LEAVE YOU ALONE WHEN YOUR POWERCHAIR IS IN FREEWHEEL, UNLESS BOTH HANDBRAKES HAVE BEEN APPLIED AND THE POWERCHAIR CANNOT MOVE.



Brakes

The P200 series of powerchairs are fitted with an automatic braking system which is applied when the joystick is in the central position. Release the joystick and the powerchair will slow to a stop. When the powerchair stops an automatic brake will engage. This will stop the vehicle rolling forwards or backwards. When you start, this brake will automatically disengage. If the battery should go flat this brake automatically engages.

The P200 series of powerchairs are also fitted with a handbrake on each of the the rear wheels (Figs.6 & 7). Push the lever forward to engage each brake. Never leave the powerchair in freewheel without engaging **both** brakes. Both brakes should be engaged before you get on or off the powerchair.



Warning! If the freewheel devices are in "freewheel" the braking is disabled. Never select the freewheel devices if the powerchair is on a slope or could be pushed onto a slope.

Never leave one motor in Drive and the other in freewheel. You could damage your powerchair or cause injury. Never leave one handbrake engaged and the other off; this could cause a sudden turn on starting

Seat Adjustment

If you need help with any of these adjustments ask your dealer to assist you.

Seat Angle Adjustment (Fig.8)

The seat angle is adjustable to four different positions

- Seat vertical 90°
- Seat reclined by 3.5° to 93.5°
- Seat reclined by 7° to 97°
- Seat reclined by 10.5° to 100.5°

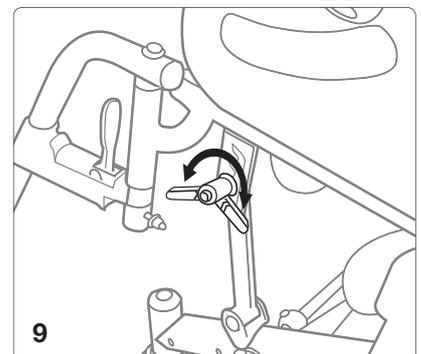
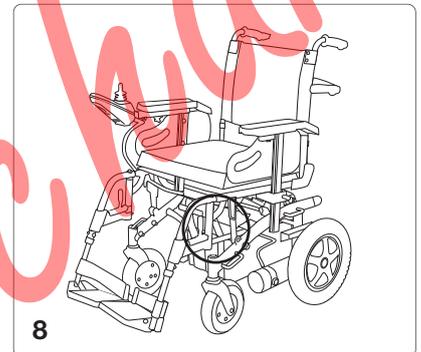
Adjusting the seat angle (Fig.9)

- Loosen the thumbscrew.
- Adjust bracket to desired position.
- Tighten the thumbscrew to lock the seat in place. Be sure the screw is firmly tightened.

Backrest Angle Adjustment (Fig.10)

The backrest angle is adjustable to seven different positions

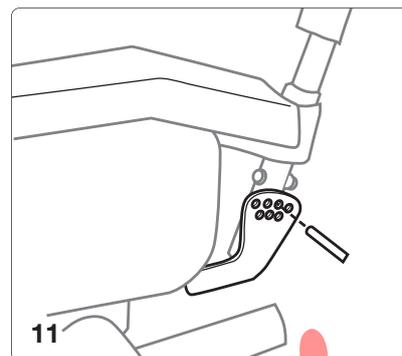
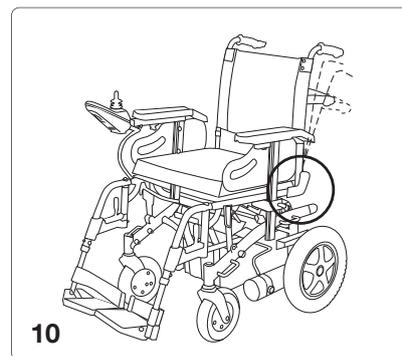
- Vertical - 90° - upright position for driving outdoors
- Reclined 5° to 95°
- Reclined 10° to 100°
- Reclined 15° to 105°
- Reclined 20° to 110°
- Reclined 25° to 115°
- Reclined 30° to 120°



For reasons of operator forward visibility and vehicle stability, it is suggested that the most upright back angle be chosen that is consistent with operator comfort.

Resetting the Back Angle (Fig.11)

- Note that at the pivot point of the seat back, a screw is positioned through the pivot that limits backward motion of the seat back. Both pivots are imprinted with the stop angles. Observe the current stop position.
- Remove the nut washer and screw from the stop position of each pivot using the allen key and spanner provided.
- If you need to recline the back more, reposition the stop screws into stop positions 1 higher than was observed in the first step. If you wish to reduce the back angle, reposition the stop screws into positions 1 lower than observed in the first step.
- Replace the nuts and washers onto the stop screws to lock the setting.



Warning! Do **not** use the armrest as a support when getting in and out of your powerchair – Armrests are not designed to fully support your weight.

Warning! Reclining angles in excess of 100° are only for use when the chair is stationary, on a flat surface with the power off.

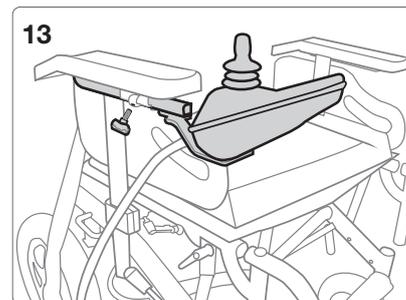
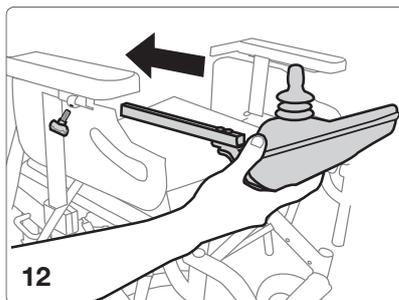
Warning! Always return the seat to the upright or 95° position before starting off. If the seat back is tilted too far back, tipping over backwards is more likely, especially if travelling up ramps, kerbs or hills.



Joystick Controller Adjustment

The joystick controller position can be adjusted by

- Loosening the thumbscrew.
- Sliding the joystick tube in or out to the most comfortable position (Fig.12).
- Re-tighten the thumbscrew and ensure that the controller is secure (Fig.13).



The swing-away joystick can be positioned along side the armrest by holding onto the body of the controller and gently moving it outwards. The controller will swing round to any position you find most comfortable for driving (Fig.14). The controller will then be outside the armrest; be careful not to impact the controller when manoeuvring.

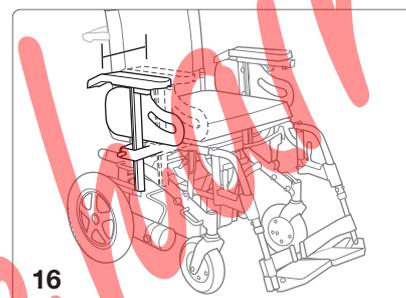
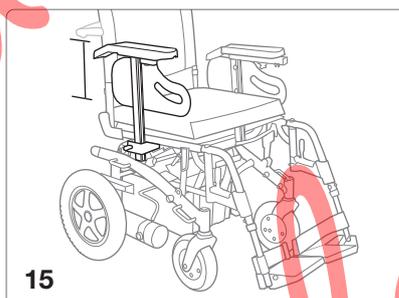


Ask your dealer if you wish to have the joystick on the left hand armrest and they will make this change for you. Alternatively ask them to explain how this can be done.

Height and Width Adjustable Armrests

Setting the Armrest height (Fig.15)

- Locate the lever retaining the armrest
- Loosen the lever
- Pull the armrest up or down to select the most comfortable height
- Tighten the lever and ensure that the armrest is secure (Fig.16)



It may be better to have someone else adjusting height while you are sitting in the chair and making sure the armrests are in a comfortable position before they are locked in place.

Setting the Armrest width (Fig.17)

- Locate the knob below the seat retaining the armrest
- Loosen the lever
- Pull the armrest in or out to select the width required
- Repeat with the other armrest
- Tighten the levers making sure that the armrests are equidistant from the centre of the seat and ensure that both armrests are secure.

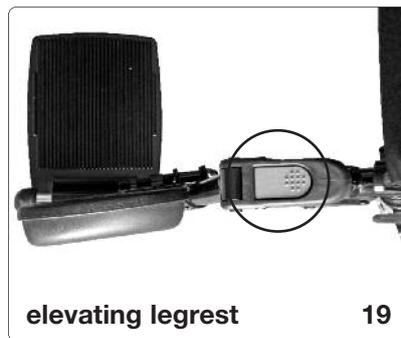
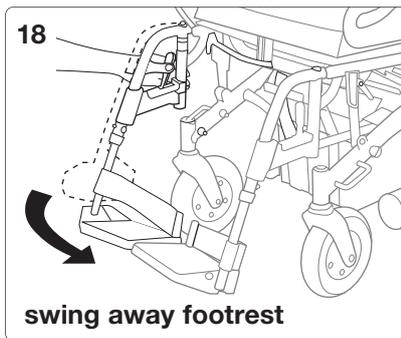


Warning! Always check the knobs and levers are tight before driving the powerchair

Warning! Do not use the armrest as a support when getting in and out of your powerchair
Armrests are not designed to fully support your weight.

Swing Away Footrest

- Press the plastic lever to release the locking mechanism (Fig.18). This allows either;
 1. The footrest to be lifted out or,
 2. The footrest to swing left or right.To return the footrest to the standard seating position, reverse this process.



Elevating Legrest (optional)

The P200 series of powerchairs have optional elevating legrests available. When fitted these can be used to support your lower leg. To adjust the legrest angle, press the top of the footrest attachment (Fig.19) to achieve desired angle. When you want to get out of the powerchair, press the top of the footrest attachment (Fig.19) and the footrests will lower to the driving position. You should not normally drive with your legs in the elevated position.

Anti-tip Assemblies

There are two anti-tip assemblies to the rear of the powerchair. These must not be removed from the powerchair for normal use as they are fitted for stability purposes.

If they need to be removed for a special purpose such as transportation, then simply depress the lock button and extract the units. Always replace these units before use and ensure that the lock button is visible once each assembly is reinserted (Fig.20).



Transferring In And Out Of Your Powerchair

Transferring into your Powerchair

- Make sure your powerchair is stable on a level surface, both the handbrakes are applied and it is not in freewheel.
- Try and push the powerchair before getting in, to make sure the brakes are engaged.
- Ensure that the controller is turned off before you try and get into your powerchair.
- We recommend moving the footrest to the vertical position.
- With your back to the chair, steady yourself with the armrests and lower yourself gently into the seat; do not put undue weight onto the armrests !
- Before moving off disengage **both** handbrakes.

Getting out of your Powerchair

When getting out make sure your powerchair is on a level surface and the powerchair is not in freewheel.

- Engage both handbrakes.
- Switch the controller power off before you try to get out.
- Raise the footrests to the vertical position.
- Place your feet between the legrests and
- Raise yourself gently into a standing position using the armrests to steady yourself.

If you feel at all uncertain about getting out, seek assistance before you try!

Driving Your Vehicle



Warning! 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. **Range.** Your powerchair has a limited range. Always ensure that your planned journey does not exceed the maximum range in the Technical Specification Sheet and that your battery is fully charged.
3. **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.
4. **Only use the vehicle for the purpose its intended for.** Do not drive through water or on slippery surfaces; do not transport more than one person; do not tow other vehicles or carry excess weight.
5. **Before sitting in your powerchair**, check both the freewheel levers are **not** in the freewheel position
6. **Check the battery charger is disconnected.**
7. **Check the backrest is upright**
8. **Ensure your feet are securely on the footrests.**
9. **Check you have adjusted the seat** as instructed in this manual – get comfortable. Secure your seat belt.
10. **Make sure the way ahead is clear.**
11. **Check that you are not wearing or carrying anything that may become entangled in the powerchair wheels or mechanisms. Injury could result!**
12. **Disengage both handbrakes** by firmly moving them back onto the "Brake Off" position.
13. **Switch on the power.** Check the battery level indicator is in the green area.
14. **Speed Control.** Set the speed control to a low setting.
15. **Gently push the joystick in the direction** you wish to go. The vehicle will now move off. The further you push the joystick the faster the vehicle will go.
16. **To brake, return the joystick to the neutral position.** If you become unsure or feel unsafe release the joystick immediately.
17. **As you get accustomed to the power** you can increase the speed.
18. **Switch off when not in use.** To conserve your batteries and prevent the vehicle accidentally moving, always turn off the power when your powerchair is not in use.

Driving Your Vehicle – Hazards



Warning! Before driving the powerchair you should be aware that, under certain circumstances it could become unstable and tip over. Your powerchair has been designed to operate on paved, even surfaces and should not be used on rough, rutted, soft or slippery terrain. Do not exceed the maximum safe slope or weight loading limit recorded in the Technical Specifications.

Getting in and out of the vehicle: When getting in make sure that the vehicle is on level ground, both handbrakes are engaged, and not in freewheel mode. Ensure that the armrests are secure. When getting out, park on level, stable ground, switch off the powerchair and engage both handbrakes before leaving your seat. Make sure you get out of the vehicle in a safe area.

Seat Back Position: Always drive with the seat back in an upright position.

Kerbs and Obstacles: Always try to avoid kerbs and obstacles. Never ride up or down kerbs or obstructions higher than that in the Technical Specification Sheets. Always tackle obstacles head on. Never drive or turn across a slope. Note that the anti-tip rollers at the rear of the powerchair may contact the kerb as you descend; this is normal.

Hills & Slopes: Going Up Hill. Lean slightly forward when going up. Remember that the seat back should be in the upright position. 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.

Hills & Slopes: Going Down Hill. Lean back in the seat when going down, Turn the speed control dial to low. If you are not comfortable about tackling a gradient, consider an alternative route.

Try to avoid crossing slopes – always try to drive straight up and down the slope NEVER BACK DOWN A SLOPE!

Turning: Always **slow down** before a turn; turning at speed can cause the powerchair to topple. Look in the direction you are travelling – If there is a blind corner sound the horn.

Turning Circle: So you can judge the turning circle, practice manoeuvring your powerchair. This is important to avoid tipping off kerbs, and when going into and out of lifts or entrances.

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.

Terrain: Do not drive your vehicle across deep, soft or slippery terrain (for example, soft dirt, sand, or loose gravel). You could get stuck. Also avoid rutted, bumpy ground and try to keep to well prepared surfaces.

Immersion: Never enter large puddles or areas of water where the depth and/or current is unknown. Immersion or partial immersion of the powerchair may damage it and could leave you stranded.

Shower Rooms or Washing: Never take your powerchair into a shower or steam room, and never hose it or pressure wash it down. It's sensitive electronics could malfunction if they get wet or damp.

Tyres: Your vehicle is fitted with solid tyres that will not puncture. Should they become damaged they should be replaced by your dealer. It is important that they are not worn to ensure the handbrakes work effectively. Do not attempt to replace them yourself.

Transporting your Powerchair

Contact your dealer for advice on how best to transport your powerchair in your vehicle. You may prefer to use ramps rather than lifting the components. By removing the two pins at the base of the seat back it is possible to fold the back flat for transportation.



Warning! Loading and / or dismantling the powerchair involves lifting and handling heavy parts. Weights are given in the Technical Specification; consider if you need help before you try to lift/load them. Your powerchair is not designed for unassisted loading into and out of a car or similar vehicle. Specialist ramps and hoists are available for transferring the powerchair into and out of a vehicle. Contact your dealer for advice on how best to transport your powerchair in your particular vehicle.

Warning! Pinching or Crushing. Be careful to avoid being pinched or having your hands crushed when lifting or handling parts. Wear gloves whenever possible. Special attention should be paid when raising and lowering armrests or rotating/handling the wheels when dismantling or during re-assembly for transportation in a vehicle.

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

Warning! Do not stand the powerchair up on its ends or sides as it may become unstable and topple causing an injury.

Battery Isolation



It may be necessary for some carriers such as airlines to physically disconnect/isolate the batteries for transit. If this is necessary then please advise the carrier staff of the following procedure:

1. Move to the rear of the powerchair.
2. With the powerchair switched off, grasp the (red-t shaped) battery in-line connector grip in one hand and the opposite side of the plug /socket connector assembly with the other hand. Pull the two halves apart (Fig.21)

To reconnect the batteries simply reverse the above procedure.



Battery Charging



Warning! When charging batteries NEVER smoke or charge batteries 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. If the powerchair has been damaged, it is possible that the batteries have been affected. In this case do not charge the powerchair and refer to your dealer for assistance. Never charge the powerchair outside as the charger is not designed to get wet. If the charger appears damaged in any way do not use it and contact your dealer for a replacement.

Warning! Always charge in a dry, well ventilated area.

Warning! It is strongly recommended that the mains socket used for charging the powerchair is protected by a 30 mA RCD (residual current device). Many buildings have sockets protected by a system based RCD. If you are in doubt as to the level of protection in your charging location then either purchase a plug in RCD or consult a qualified electrician to verify that your charging location mains sockets are protected.

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

Warning! Do not attempt to open the battery boxes/enclosures, there are no user serviceable parts inside. It may be necessary for some carriers such as airlines to physically disconnect the batteries for transit. If this is the case the batteries can be isolated by following the guide on "battery isolation" - This should only be done by appropriately skilled/qualified personnel.- Remember that batteries are extremely heavy.

Warning! Never use a different battery charger to that supplied by your dealer. Damage or injury may occur if you do!

Warning! When charging batteries NEVER connect or disconnect the charger from the powerchair while it is still connected to the mains. - Remove the charger mains plug from the wall socket having first switched the mains socket off if a switch is provided.

The charging socket is located underneath the Joystick controller (Fig.22). When the vehicle is charged remove the plug. The battery charger has a red indicating lamp (Fig.23). When the charger is connected and switched on at the mains the lamp will show red. The second light shows

- Yellow when charging
- Green shows full charge
- Off to indicate OK to disconnect the charger

Always ensure that the lamp goes out before switching off and disconnecting the charger at the mains.



Connection Instructions

When you receive your powerchair the batteries are only partially charged - always fully charge them overnight before use.

1. **Place you machine in an area that is dry and well ventilated.** Make sure a power point is nearby.
 2. **Check the vehicle is switched off.**
 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.** Check the power light shows red.
 6. **The charger lamp shows yellow** when charging and then changes to green when the battery is fully charged.
 7. **Wait until the charging lamp goes out then,**
 8. **Switch off the mains and remove the charging plug from the joystick.** Do not leave the charger plugged in with the power off. This will gradually discharge your battery.
-

Battery Care

The batteries are the lifeblood of your vehicle. Their characteristics can change depending on charging, temperature, usage and other factors. Listed below are guidelines to prolong battery life.

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

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

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



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

User Maintenance

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

Daily or Before Use

- Check that the anti-tip assemblies are fitted and secure.
- Check seat-back and seat base angle thumbscrews / nuts are tight.
- Visually check the machine for damage.
- Visually check the tyres for damage.
- Check that the seat is secure.
- Check the armrests are secure and tight.

-
- Batteries should be fully charged.
 - Check the operation of the brakes and if you have any concerns, contact your dealer.
 - Keep your vehicle clean by using a damp cloth and soapy water – **never** use a hose or pressure washer.

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 vehicle tries to turn to one side, the brakes are not holding on a slope or the controller operates strangely, 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 powerchair. They will be aware of the environmental regulations in force at the time and will assist you to meet the applicable environmental legislation.

Servicing and Maintenance

1. **This vehicle is designed for minimum maintenance.** However it is recommended that a competent engineer service the vehicle at least once a year. If the vehicle is used constantly we recommend a twice yearly maintenance.
2. **Ensure the engineer stamps the Service Log** (page 32) 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 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 ?
 - Is the battery charging up correctly – is the “full” charge green light on after charging ?
 - When turning, does the powerchair respond equally to left and right movements of the joystick ?
 - Does the powerchair stop smoothly when the joystick is centred ?
 - Does the powerchair tend to pull to one side ?
 - Does the speed control work ?
 - Has anything come loose ?
 - Are the handbrakes effective ? Are they worn or loose ?
 - Are there noises or rattles that were not there before ?
 - Are there any signs of damage, corrosion or cracking ?
 - Are all lights working if fitted?
-

Additional Safety Information

Carrying Weight on the Vehicle

Bags or Luggage: Never carry bags (unless they are an approved accessory) behind the seat as this could result in tipping over backwards. Only carry small bags on your lap and always ensure it does not prevent you from controlling your vehicle.

Seat Arms: Do not carry or attach anything to the seat arms. Anything attached to the seat arms could affect stability, or interfere with the control of the vehicle.

Other Precautions

Joystick: Do not touch the joystick when getting in or out of your powerchair; always make sure the powerchair is switched off.

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.

Engineer's Checklist for Powerchairs

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

- Wheel bearings for wear and lubricate
- Operation of the joystick especially to detect if there is any asymmetrical operation of the motors
- The On/Off switch for correct functioning
- The speed indicator for correct indications
- The Speed Increase and Decrease buttons for correct operation
- Wear or damage to tyres or wheels
- Handbrake effectiveness, damage, corrosion or wear
- Bodywork fixtures for damage, corrosion or cracking
- Levers and knobs securing armrests and joystick
Do they tighten and secure properly?
Do they need replacing?
- Joystick play, correct operation and response and carry out any necessary adjustment/replacement
- Battery contacts & signs of corrosion
- Check all cables for damage, abrasion, corrosion and that screening is intact. Replace as necessary
- Seat mounting and catch for wear or damage
- Motor brush wear/speed check
- Electromagnetic brake operation
- Freewheel operation on both motors independently
- Frame for damage or cracks
- General check for corrosion, repair or protect as necessary
- All operational controls work correctly
- Battery condition and charger operation
- Tighten all nuts & bolts
- Operation of the joystick in forward, reverse, turning, and stopping smoothly
- Correct all defects found and determine if the vehicle is roadworthy
- Final road test and operation of lights, indicators and hazard warnings
- Clean vehicle/customer road test

Important Note for the Engineer

Enquire if the customer is satisfied with the product. Please report all points good or bad directly to: Electric Mobility 01460 258100 If you have any comments please include them.

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
<ul style="list-style-type: none">• Powerchair does not move. when power is switched on.	<ul style="list-style-type: none">• Batteries flat - check level.• Is the charger connected?• Is either freewheel engaged?• Freewheel has been selected while power is on Ensure neither freewheel is selected; switch off and on
<ul style="list-style-type: none">• Vehicle pulls to one side.	<ul style="list-style-type: none">• Check for tyre damage or punctures.• Freewheel selected on one side• Motor failure - contact dealer.• Binding Bearings – contact dealer
<ul style="list-style-type: none">• Vehicle behaves erratically when driven. or judders or cuts out ?	<ul style="list-style-type: none">• Possible electronic problems - contact dealer.
<ul style="list-style-type: none">• Short Range	<ul style="list-style-type: none">• Check tyres for damage.• Check batteries are fully charging.• Check vehicle moves easily in freewheel

Remember, to save the batteries, the powerchair controller has a sleep mode which is activated if the joystick is not moved for a period of time. Any button press should restore operation, but, if this does not work, switch the powerchair off and then on again. Remember also that you may have inadvertently disabled the powerchair by locking it (see page 11). Press the power button selecting off and then press it again. The powerchair should then show the battery level and function normally. If, after several attempts it still will not operate call your dealer.

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 may save you money. Phone the dealer and explain exactly what the problem is, recounting as much detail as possible including the indicated faults.

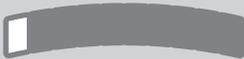
Diagnostic Table - Standard Version

Your powerchair is equipped with an on-board diagnostic system. When a fault occurs it will trigger all of the battery meter LEDs (lamps) to flash at once. By counting the number of flashes before the pattern repeats, a diagnosis of the problem may be possible by using the information in the table below. This will be very helpful to your dealer and may enable a faster remedy to the particular problem.

Number of flashes	Cause/comments
 x 1	1 flash - The battery needs charging or there is a bad connection to the battery. Check the connections to the battery. If the connections are good, try charging the battery.
 x 2	2 flashes - The left hand motor has a bad connection. Check the connections to the left hand motor.
 x 3	3 flashes - The left hand motor has a short circuit to a battery connection. Contact your service agent.
 x 4	4 flashes - The right hand motor has a bad connection. Check the connections to the right hand motor.
 x 5	5 flashes - The right hand motor has a short circuit to a battery connection. Contact your service agent.
 x 7	7 flashes - A joystick fault is indicated. Make sure that the joystick is in the center position before switching on the controller.
 x 8	8 flashes - A controller fault is indicated. Make sure that all connections are secure.
 x 9	9 flashes - The parking brakes have a bad connection. Check the parking brake and motor connections. Make sure the controller connections are secure.
 x 10	10 flashes - An excessive voltage has been applied to the controller. This is usually caused by a poor battery connection. Check the battery connections.

Diagnostic Table - Lighting Version

Your powerchair is equipped with an on-board diagnostic system. When a fault occurs it will trigger a fixed number the battery meter LEDs (lamps) to flash. By counting the number of flashing LED's, a diagnosis of the problem may be possible by using the information in the table below. This will be very helpful to your dealer and may enable a faster remedy to the particular problem.

Number of flashes	Cause/comments
	1 flash - The battery needs charging or there is a bad connection to the battery. Check the connections to the battery. If the connections are good, try charging the battery.
	2 flashes - The left hand motor* has a bad connection. Check the connections to the left hand motor.
	3 flashes - The left hand motor* has a short circuit to a battery connection. Contact your service agent.
	4 flashes - The right hand motor* has a bad connection. Check the connections to the right hand motor.
	5 flashes - The right hand motor* has a short circuit to a battery connection. Contact your service agent.
	6 flashes - The wheelchair is being prevented from driving by an external signal. The exact cause will depend on the type of wheelchair you have, one possibility is the battery charger is connected.
	7 flashes - A joystick fault is indicated. Make sure that the joystick is in the center position before switching on the control system.
	8 flashes - A possible control system fault is indicated. Make sure that all connections are secure.
	9 flashes - The parking brakes have a bad connection. Check the parking brake and motor connections. Make sure the control system connections are secure.
	10 flashes - An excessive voltage has been applied to the control system. This is usually caused by a poor battery connection. Check the battery connections.

Frequently Asked Questions

I want to transport my vehicle in a car.

There are various techniques. It depends on what type of vehicle you own and your physical capability. The usual way is to use specialist ramps which can be provided by your dealer. Make sure your dealer has demonstrated the easiest way of loading your powerchair into your car. See "Transporting your Powerchair" - page 18.

Can I fit weatherproofing such as a canopy?

No, the Rascal powerchairs are too small to have canopies as they can adversely affect stability and handling.

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 it charged, and do not let the battery run completely flat.
- Ensure all you battery is fully charged at the end of the charging cycle
- Batteries may not perform as well in very cold weather.
- Change your battery if you find it is 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 ?

The generally expected range shown in the Technical Specification sheet. 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 person.
- The condition and charge of the batteries.
- Faulty or old batteries or a faulty charger

Important Rule: Always use the correct charger with the correct batteries and ensure all batteries are charged before you start out.

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 Rascal powerchair 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.

Additional Information

Owners Manual: Replacement copies are available from: Electric Mobility Euro Ltd. Canal Way, Ilminster, Somerset, TA19 9DL Telephone: 01460 258100.

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.

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

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.

Guarantees

12 Month Guarantee

Electric Mobility Euro Limited (the 'Company') guarantees its products against defects in materials and workmanship under normal use for a period of one year from the date of purchase by the original retail purchaser (the 'Guarantee Period'). If a defect arises and a valid claim is received within the Guarantee Period, at its option, the Company may either (1) repair the defect at no charge, using new or replacement parts; (2) replace the defective part with a new part or a part that is either the same as, or functionally equivalent to, the original part; (3) replace the product with a new product which is the same as, or at least functionally equivalent to, the original product; or (4) refund the purchase price of the product.

A replacement product or part assumes the time remaining on the Guarantee Period of the original product or 30 days from the date of replacement or repair, whichever provides longer coverage. When a product or part is exchanged, any replacement item becomes the property of the consumer and the replaced item becomes the Company's property. When a refund is given, the product for which the refund is provided must be returned to the company and becomes the Company's property.

Lifetime Frame Guarantee

The Company guarantees the frame of its products against defects in materials and workmanship under normal use for the lifetime of the product. If a defect arises and a valid claim is received under the Lifetime Frame Guarantee, at its option, the Company will repair the defect at no charge, using new or replacement parts or will replace the frame. When a frame is exchanged, the replacement frame becomes the consumer's property and the replaced frame becomes the Company's property.

The Lifetime Frame Guarantee covers the cost of parts and materials only. Services performed by the Company in replacing the parts or materials or the frame may be subject to additional charges for labour and transportation.

Exclusions and Limitations

The 12 Month Guarantee and the Lifetime Frame Guarantee (the 'Guarantees') apply provided only that the guarantee card has been correctly filled out and returned to the Company within 15 days from delivery of the product to the original consumer.

The Guarantees do not apply to the following: (1) damage caused by accident, abuse, misuse, flood, fire, earthquake or other external cause; (2) damage caused by operating the product outside the permitted or normal use of the product; (3) damage caused to products that were not operated, maintained or serviced in accordance with the Owner's Manual; (4) to a product or part that has been modified or repaired otherwise than in accordance with the Owner's Manual or with the express written authority of the Company; or (5) to normal wear or tear, normal maintenance, service or periodic adjustments necessitated by normal use. In addition to the above, the Company shall be under no liability in respect of any defect arising from wilful damage, negligence, or misuse.

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 powerchair 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 powerchair 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 powerchair 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 - Rascal Powerchair P200

Powerchair type Class	Class A, B or C	Class B
Department of Transport Class	Class 1 2 or 3	Class 2
Overall (minimum) dimensions fully assembled	length x width x height mm (in)	1090 (43) x 651 (25.6) x 1000 (39)
Overall (minimum) dimensions fully assembled with back folded	length x width x height mm (in)	1090 (43) x 651 (25.6) x 760 (30)
Maximum carrying capacity - not to be exceeded	kg (lb)	136 (300)
Mass (weight) including batteries	kg (lb)	90 (198)
Battery voltage and capacity	volts and ampere hours	12V 50 or 55Ah x 2
Mass (weight) of batteries	kg (lb)	2 x 18.2 (40)
Type of seat		Non detachable, integral to powerchair
Seat width	mm (in)	457 (18)
Wheel size	front/rear mm (in)	210 (8.25) / 355 (14)
Type of tyres	type	Solid
Maximum speed	km/h (m.p.h.)	6.2 (4)
Minimum braking distance from maximum speed	m (ft)	1.2 (4)
*Range on full charge and flat ground	km (miles)	Up to 26 (16.2)
The turn-around width	m (ft)	1.30 (4' 3")
The maximum safe slope	degrees of slope	8° - Do not exceed the powerchair may topple
The maximum climbing ability facing upwards	degrees of slope	8°
Ground clearance	mm (in)	50 (2)
Maximum obstacle climbing ability	mm (in)	50 (2)
Maximum safe descendable kerb height	mm (in)	50 (2)
Force to operate Accelerator control	newtons (lbs)	2 (0.45)
Force to operate Freewheel lever	newtons (lbs)	45 (10.1)
Ambient operating temperature range	°C (°F)	2 (35.6) to 40 (104)
Optional lighting pack compatible		Yes

This powerchair meets the relevant requirements of ISO 7176:14 2008 *Range on full charge and flat ground. Due to a policy of continual improvement, Electric Mobility Euro Ltd. reserves the right to change specifications without prior notice.

Technical Specification - Rascal Powerchair P200 Mini

Powerchair type Class	Class A, B or C	Class B
Department of Transport Class	Class 1 2 or 3	Class 2
Overall (minimum) dimensions fully assembled	length x width x height mm (in)	1090 (43) x 616 (24.25) x 1000 (39)
Overall (minimum) dimensions fully assembled with back folded	length x width x height mm (in)	1090 (43) x 616 (24.25) x 760 (30)
Maximum carrying capacity - not to be exceeded	kg (lb)	136 (300)
Mass (weight) including batteries	kg (lb)	77.3 (170.4)
Battery voltage and capacity	volts and ampere hours	12V 34 Ah x 2
Mass (weight) of batteries	kg (lb)	2 x 12.4 (27.3)
Type of seat		Non detachable, integral to powerchair
Seat width	mm (in)	406.4 (16)
Wheel size front/rear	mm (in)	210 (8.25) / 355 (14)
Type of tyres	type	Solid
Maximum speed	km/h (m.p.h.)	6.2 (4)
Minimum braking distance from maximum speed	m (ft)	1.2 (4)
*Range on full charge and flat ground	km (miles)	Up to 20 (12.5)
The turn-around width	m (ft)	1.25 (4' 1")
The maximum safe slope	degrees of slope	8° - Do not exceed the powerchair may topple
The maximum climbing ability facing upwards	degrees of slope	8°
Ground clearance	mm (in)	50 (2)
Maximum obstacle climbing ability	mm (in)	50 (2)
Maximum safe descendable kerb height	mm (in)	50 (2)
Force to operate Accelerator control	newtons (lbs)	2 (0.45)
Force to operate Freewheel lever	newtons (lbs)	45 (10.1)
Ambient operating temperature range	°C (°F)	2 (35.6) to 40 (104)
Optional lighting pack compatible		No

This powerchair meets the relevant requirements of ISO 7176:14 2008 *Range on full charge and flat ground. Due to a policy of continual improvement, Electric Mobility Euro Ltd. reserves the right to change specifications without prior notice.

Notes

Nithsdale
Wheelchairs

Service Log

Notice for the Service Engineer.

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

Dealer stamp - 1st Service
Nithsdale Wheelchairs

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

Nithsdale Wheelchairs

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
You can also visit Electric Mobility Euro's website for further information @ www.electricmobility.co.uk



Dealer Information - Guarantee 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.: _____

Email address: _____

Did you buy on the Internet? or through a local dealer? Please tick the relevant box.

Date received at Dealers: _____

Postage will be paid by: Electric Mobility Euro Ltd., FREEPOST (SWBI 1045), Ilminster, Somerset, TA19 9ZA
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Nithsdale
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Rascal Powerchair Models P200 & P200 Mini

Manufactured by

**ELECTRIC
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Electric Mobility Euro Limited, Canal Way, Ilminster, Somerset TA19 9DL
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E. and O.E. Issue 2: 03/2015