

User Guide MC Concept 1121

This vehicle was supplied by:		Date:	1
Delivery date:	_ Year 20		
Serial number:			

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Symbols



Used in the manual to indicate sections describing situations where extra care is required owing to the risk of personal injury.



Used to indicate sections on electromagnetic compatibility (EMC).

Warning!



For safety reasons the vehicle must not be lent to persons who are not completely familiar with it. The vehicle is designed for one person only.



The MC Concept 1121 has been designed for persons weighing up to 150 kg. The vehicle can be specially adapted at the factory for users weighing up to 180 kg.

Joystick



The joystick control box must not be exposed to extremes of temperature or kept in a damp environment for extended periods.



The joystick control box must not be subjected to heavy knocks.



Do not switch off the control box while driving, except in an emergency, as this may damage the electronics.



For cleaning, use a damp cloth with slightly soapy water. Do NOT allow any water or moisture to enter the control box.

Seat and backrest



All our seats and backrests are produced in materials resistant to ignition and tested according to ISO 7176-16.

The cover of the seat and backrest can be washed in the washing machine. ALWAYS follow the washing instructions on the back of the seat pad / backrest.



Introduction

Congratulations on your new MC Concept 1121 electric mobility wheelchair.

You are now the owner of an electric mobility wheelchair developed for use indoors as well as outdoors. It is what is called a Class B vehicle according to the European classification of electric wheelchairs.

To get the best out of this vehicle - and to avoid breakdowns and accidents - we recommend that you read this User Manual carefully. If you are a new user, you should pay particular attention to the section "Driving the MC Concept".

The MC Concept 1121 is designed to stay safe to use for at least 10 years, up to a maximum of 5,000 hours, providing it has service and safety inspections every year, which is equivalent to around 500 operating hours. The service must be carried out either by Medema Danmark A/S or an authorised workshop.



IMPORTANT! For safety reasons it is of the utmost importance that service and safety check intervals are complied with, as this minimises the risk of brake failure and short-circuits in the wiring, which could generate heat and cause a fire.

We offer a wide range of accessories for the MC Concept that can make everyday life easier for you. You are always welcome to contact us for further information on special accessories and adaptations.

Medema Production A/S is not responsible for any damage or injuries caused by inappropriate or unsafe use of the MC Concept.

If you have any further questions about the MC Concept or this User Manual, you are always welcome to get in touch. Our contact details are as follows:

Medema Production A/S
Phone: +45 70 10 20 54
Email: info@minicrosser.com
Internet: www.minicrosser.dk

NB: Errors and omissions excepted. We reserve the right to update this manual as required.

(€ Declaration of conformity

Medema Production A/S hereby declares that:

Machine: MC Concept

Use: (Prescribed use in

User Manual)

Model No: 1121

Complies with the Medical Device Directive 93/42/EEC

The product is made in accordance with the harmonized standard EN 12184 - Electrically powered wheelchairs, scooters and their chargers.

The product is risk analysed in accordance with the harmonized standard DS/EN ISO 14971:2007-04-10 2. edition - Medical devices - Application of risk management to medical devices.



The Mini Crosser can, for a fee, be taken to the nearest dealer for disposal in accordance with current environmental regulations.

Manufacturer: Medema Production A/S

Address: Enggårdvej 7, DK-7400 Herning

Tel./Fax +45 7010 2054 +45 9716 8582

Date: <u>12.04.2010</u> Signature: _____

Part names

The part names given below refer to the descriptions later in the instruction manual.



Introduction DX2

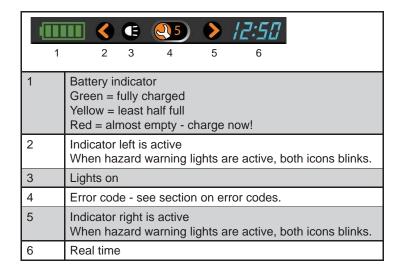
DX2 is the first in a new generation of joysticks to control the electric wheelchair. With its large color LCD screen and its logical icon built menu structure, it directs the user to the target.

Joystick parts

Dynamic DX2 AJR		
2 1	1	Start/stop button
6 4 7	2	Indicator left
	3	Indicator right
	4	Select
	5	Display
	6	Speed selector
	7	Accessory Selector
	8	Horn

Operating

At the top of the display you will find the status bar. Battery indicator is displayed constantly. The clock can be turned on or off as you wish. The other is lit when the corresponding function is active.



Clock on/off



Press arrow up/down or joystick (push forward) until the above icon is showed in the center of the screen.



Use "Select" to switch between X and ✓.

Accept by pressing the arrow up/down button.

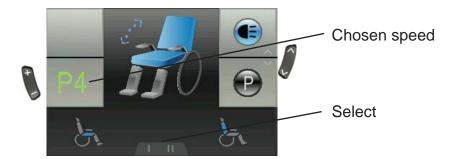
Set Speed

When you turn the joystick on, the image shown below will be presented in the display. The number in the centre shows the speed you have chosen as max speed. Change the Speed by selecting the plus / minus key. Maximum speed is 5, lowest is 1.



Find the features in the bottom with the "Select" button.

Setting the seat - back and leg supports

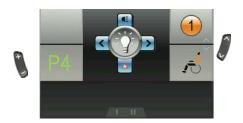


Press the arrow up / down until the image shows the chair. Use the "Select" to choose the function you want modified. Use the joystick to change example angle of the seat back.

Function	Icon
Seat angle (Tilt)	30 0
Backrest angle	30
Seat height	ijb
Left footrest	130
Right footrest	170
footrest both	110
Lying down	***
Headrest	ind

Only the available options will be displayed.

Light on / off



Push the arrow up / down until the image for light is shown in the centre.

Push the joystick forward to turn the light on. And again to turn of the light.

Push the joystick back to activate the hazard warning lights. Push the joystick back again to turn it of.

Push the joystick right or left to activate the indicators right or left. Turn of the indicators by puching the joystick to the same side again.

Setting the Backlight

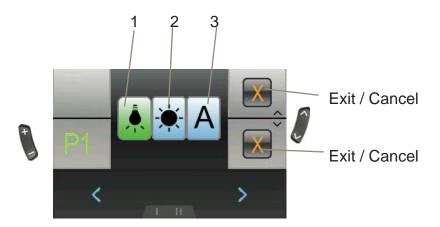


Press the arrow up / down until the sun i shown i the centre. Push the joystick forward to enter the settings. Use the Select button or joystick right / left to change the brightness.

Use Joystick forward / back or arrow up / down to accept the new settings and return to the main menu.

Setting the display environment

Use the arrows up /down until "day / night" icon i shown in the centre. Push the joystick forward to enter settings. The image below will show.



Setting	Result
1 - Indoor	The display will show a black background color.
2 - Outdoor	The display will show a white background color.
3 - Automatic	The background color will change (black/white) accordingly to the surrounding light.

Use "Select" or joystick right / left to select setting.

Push the joystick forward to accept the new settings and return to the main menu.

If you push the Joystick back or use the arrow up / down, the new setting will be dismissed and you will return to the main menu.

Setting the Clock



Use arrow up / down until the clock is shown in the centre. Push the joystick forward to enter settings. The image below will show.



Press the Select button or push the joystick right / left to choose the digit to change.

Joystick forward make the number count forward.

Joystick back accept the new settings and return to the main menu.

Arrow up / down dismiss the new settings and return to the main menu.

System lock



To lock the DX system



Press the on / off button, for 4 sec. while the system is turned on. The system will now shut down in locked condition.

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To unlock the DX system		
O	Press the on / off button. The system will show a lock in the display.	
	Press the horn twice within 10 seconds. The system will boot normally.	

Error Code

Code	Cause	Meaning
1	DX Module	Could mean: - Errors in programming - Error in wire connection - Internal fault in a module Turn off the chair and turn on again. If it doesn't works, contact qualified technician (HMC or therapist).
2	DX Accessory	Could mean: - driving slowly because of raised seat. (programming). Not an arror. Lower the seat as much as possible. If it doesn't works, contact qualified technician (HMC or therapist).
3	Motor 1 / L (M1)	Could mean: - Loose connection from the engine to power module - Short circuit Check that no plug is loose. Contact competent technician (HMC or therapist).
4	Motor 2 / L (M2)	Could mean: - Loose connection from the engine to power module - Short circuit Check that no plug is loose. Contact competent technician (HMC or therapist).
5	Parking brake 1 (M1 left)	Could mean: - Loose connection - Short circuit Check that no plug is loose. Contact competent technician (HMC or therapist).
6	Parking brake 2 (M2 right)	Could mean: - Loose connection - Short circuit Check that no plug is loose. Contact competent technician (HMC or therapist).

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Extra

DX2 joystick can, using a DX Infra-red Interface Transmitter System, control all electronic equipment, that work via remote control with infrared light. Be it TV, radio, computer mice and other things.

Accessories that make it possible:

DX-IRIS2 Infra-red Interface Transmitter System To be Mounted on the chair, and are able to communicate with infrared-equipped television, radio or computer mouse.

DX-MTX Infra-red Mouse Transmitter To be Mounted on the chair, and are able to communicate with an infra-red computer mouse. This makes it possible to navigate the mouse around on a PC screen using the joystick. See below.



Use arrow up / down to find the mouse icon. As long as the mouse is blue, it is not active. Activate by pushing the joystick forward. Now the mouse turns green.



Use the joystick to move the mouse on the computer screen.



Use the "Select" button to make a mouse click. It works the same way as the mouse. You can make single clicks and double clicks, depending on what your PC is configured to use.

Disable mouse again using the arrow up / down button. New feature can now be selected.

Safety check

Daily safety check:

The electronic system has an integrated safety check which runs up to 100 times per minute. To supplement this check, you should carry out the following regular checks.

- Switch off the electronic system (no lights in the display)
- Check if the joystick is bent
- Check if the joystick is damaged in any other way
- Check that it returns to the central position when you release it

If the check reveals any problems, contact a competent service engineer before using the wheelchair again.

Weekly safety check:

Parking brake: This test must be carried out on a flat surface with at least one metre of free space around the wheelchair.

- Start the wheelchair and slowly move the joystick forward. There is a clicking sound. (The wheelchair may start to move in this setting).
- Immediately release the joystick and listen for the clicking sound, which should occur within one second.

Repeat in all directions.

- Check that the rubber bellows around the joystick is intact. This is important, as the bellows prevent moisture getting into the electronic system.
- Check that the control box is properly secured.

If the check reveals any problems, contact a competent service engineer before using the wheelchair again.

Monthly check

Check the tyre pressure at least once a month. It should be 2.8 bar.



Yearly

The MC Concept 1121 is designed to stay safe to use for at least 10 years, up to a maximum of 5,000 hours, providing it has service and safety inspections every year, which is equivalent to around 500 operating hours. The service must be carried out either by Medema Danmark A/S or an authorised workshop.



IMPORTANT! For safety reasons it is of the utmost importance that service and safety check intervals are complied with, as this minimises the risk of brake failure and short-circuits in the wiring, which could generate heat and cause a fire.

Programming



The Dynamic electronic system is programmable so that the driving characteristics can be optimised for individual users. Programming must only be carried out by people trained in Dynamic's control systems. Changing parameters incorrectly can produce driving characteristics that are dangerous for the user.

Note



Mobile phones should not be used very close to the wheelchair as they generate electromagnetic fields that may affect the electronic system.

The electronic system of the wheelchair itself also generates some electromagnetic fields, which on rare occasions may affect equipment like the alarm systems in shops.

Dynamic's control systems have been tested and meet the requirements of ISO7176/14 and EN12184

Serial number

All wheelchairs have a serial number plate showing the year of production, month and serial number. The same serial number can also be found on the front of the User Manual.

Please quote this number when making inquiries about servicing, spare parts, etc.



Unladen weight of vehicle incl. batteries and seat



Position of serial number plate on vehicle.

Driving the MC Concept 1121

MC Concept is a modern device, specially developed to help you achieve maximum mobility.

Before getting on or off the vehicle, you must check the following:

- · That the wheelchair is switched off.
- That the wheelchair is not disengaged.
- That the wheelchair and the seat you are moving to are both stable.
- Avoid placing your full body weight on the footrests.
 This may tip the wheelchair forwards.

If you are using the MC Concept for the first time, you should try out all the day-to-day situations you are likely to encounter:

- inclines/declines.
- driving on rough terrain
- driving on sloping terrain.

You should practice these manoeuvres with your therapist or other carer.

Warning!



The seat should NEVER be hoisted while driving on uneven surfaces, slopes or up and down kerbs. The higher the seat is raised, the more unstable the chair becomes.

Arms and legs

While driving, you must place your arms on the armrests and your feet on the footrests.

Cables and leads

Always make sure that cables and leads from components like the joystick are fixed using ties.

Changes of level

Never attempt to climb onto raised objects or kerbs higher than 7 cm. Always approach changes of level head on, with the front and back wheels moving in a straight line. (See below.) This reduces the possibility of tipping.

Note!



If your MC Concept/vehicle is fitted with a docking system from Dahl Engineering, note that the clearance is reduced to 5.5 cm.





Fig. 1







Fig. 3

Fig. 4

Driving on hills

When driving on hills, you should try to keep the wheelchair moving all the time. If you have to stop, start up again slowly.

When driving downhill, you must drive at the slowest speed.

If the MC Concept starts moving faster than you want, stop it by completely releasing the joystick. Carefully push the joystick forwards again and carry on with care until you reach the bottom of the hill.

11 tips for driving the MC Concept:

- Reduce the speed when turning corners and going downhill.
- Reduce the speed when driving on inclines. Maximum incline: 10° = 17%
- Reduce the speed when driving on a sideways incline. Maximum sideways incline: 10°
- Avoid driving and parking in the rain
- Avoid parking on snow and ice.
- Always park on a level (flat) surface.
- Avoid driving on rough ground.
- Avoid driving on icy surfaces, or smooth surfaces (for example snow or freshly mown grass)
- Never attempt to climb kerbs higher than 7 cm. If the wheelchair has a docking system, the clearance is reduced to 5.5 cm.
- Avoiding driving over kerbs diagonally. There is a risk of tipping over.
- Not to be used for towing other vehicles, etc.

Note!



Talk to your doctor if you are taking medicine that may affect your ability to drive motorised vehicles.

Do not drive the MC Concept when intoxicated. This applies to both medicine and alcohol.

Driving on public roads:

When driving on public roads, footpaths, pedestrian streets, car parks, shopping centres, etc. you must make sure you adjust your speed and distance for other users. At 7 km/h you must follow the traffic rules applicable to cyclists. This also means that your lights must be switched on during lighting-up time. (Optional extra)

On footpaths, the maximum speed is 6 km/h. In this situation you are regarded as a pedestrian.

Note!



You should assume that other road users cannot see you while you are sitting in the MC Concept. So take great care and wait for the road to clear before crossing.

Driving on stairs/escalators:



The wheelchair is not designed for use on stairs or escalators and any attempt to do so may cause serious injury to yourself and others.

Electromagnetic compatibility (EMC)



The MC Concept 1121 satisfies the requirements for the use of wheelchairs in an environment with electromagnetic noise. There may, however, be rare situations in which electromagnetic noise can affect the MC Concept 1121. Sources of such noise include radio and television stations, amateur radio transmitters and mobile phones.

If such equipment is being used close by, you are recommended to switch off the MC Concept.

Avoid using a mobile phone while driving.

If the MC Concept starts making unintended movements or if the brakes are released, turn the MC Concept off as soon as it is safe to do so.

In rare cases a MC Concept can set off shop alarms.

Dynamic's control systems have been tested and meet the requirements of ISO7176/14 and EN12184

Brakes

The MC Concept is equipped with two sets of brakes: The motor brake and the parking brake.

Motor braking:

When you drive downhill, the control unit of the MC Concept applies the motor brake.

Parking brake:

When the vehicle is stationary and the joystick is not moved, a magnetic brake is automatically applied to each drive unit. For driving, the magnetic brake is released first, after which the MC Concept can be driven as described above.

Note!



You must NEVER brake the MC Concept by switching off with the I/O button while moving, as this applies the magnetic brake with considerable force, with a resulting risk of tipping.

Disengagement:

The MC Concept is equipped with two disengagement levers: One on each side of the vehicle.



ALWAYS disengage on both sides.

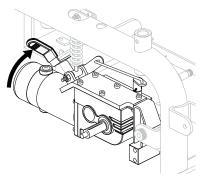
Warning!



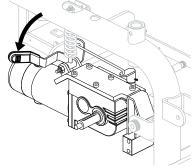
When the wheelchair is disengaged, the braking system is deactivated.



You must NEVER disengage on sloping terrain. This can lead to serious damage or personal injury.



Normal position for driving - pushed up



Position for disengagement - pushed down

Fuses

If the indicator light flashes to indicate overheating:

- Switch off the vehicle
- Wait for 3 minutes
- Restart

On the right of the MC Concept behind the seat, there is a thermal fuse protecting the battery circuit.

The fuse is white. If it pops out, you can push it back in again after a few minutes. If it immediately pops out again, contact your authorised dealer.

There are no external fuses that need to be replaced.



The thermal fuse is here.

Batteries

The battery indicator shows how much power is available to the wheelchair.

- Red, amber and green indicate that the batteries are fully charged.
- Red and amber indicate that the batteries will soon need recharging.
- Red indicates that the batteries need to be recharged as soon as possible, otherwise the wheelchair will cut out.

The MC Concept's batteries should be charged while not in use. This extends the service life of the batteries.

The MC Concept is supplied with sealed, maintenance-free batteries that do not normally generate gas and do not need to be topped up with water.

Note!



Unsealed batteries must NEVER be installed in the MC Concept.

If charging is to take place outdoors, an enclosed charger without a fan should be chosen.

Only use chargers designed for charging dry maintenance-free GEL batteries.

Max. charging current 12 A.

The charging cable must NOT be extended.

New batteries can be purchased from Medema Danmark A/S.

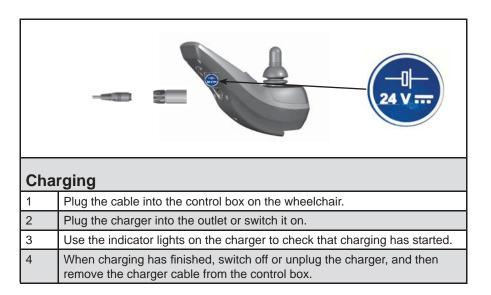
Battery disposal

Used batteries must be disposed of through your supplier or at a recycling centre.

Take care in handling any leaky batteries, as they contain corrosive acid bound into the gel mass.

INFO: New batteries can be purchased from Medema Danmark A/S.

Charging



The actual battery indicator on the vehicle will show "full" after charging for a short time. However, the batteries are not fully charged until the indicator on the CHARGER turns green.

Note!

New batteries reach full capacity after approx. 20 discharge/charge cycles.

Please note that the capacity of the batteries will reduce over time and at low temperatures. Battery capacity at -10°C is half that at +20°C.

If the MC Concept is not going to be used for an extended period, charging once a month will suffice.

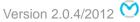
Note!



The charger must NOT be placed on the seat during charging.

Charging while the vehicle is switched on

- The battery indicator will flash during charging.
- After charging, the battery indicator will flash for about 1 minute after the charging cable is unplugged.



General care

If you get food or drink, etc. on the control unit, you should wipe it with a damp cloth.

You must only use a damp cloth to clean the MC Concept.

Note!



Using a high-pressure cleaner or hose may damage the wheelchair's electronic system.

Service intervals

The MC Concept is designed to require a minimum of maintenance.

However, you are recommended to take it to your dealer for an annual inspection.



IMPORTANT! For safety reasons it is of the utmost importance that the servicing and safety check intervals are complied with, as this minimises the risk of brake failure and short-circuits in the wiring, which could generate heat and cause a fire.

(For further information see the Service Manual.)

Insurance

A MC Concept with a maximum speed of 10 km/h is in the eyes of the law a bicycle, and no separate insurance is required.

Most contents/home insurance policies include third-party liability insurance for cyclists and so also cover MC Concept users.

We recommend that you talk to your insurance company about this when the vehicle is delivered.

If necessary, comprehensive insurance will have to be taken out separately.

Storage

The wheelchair should be stored and charged under cover, preferably at temperatures above 0°C.

Note!



The charger must be kept dry, but should not be covered when in use

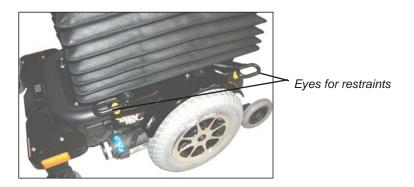
For long-term storage we recommend covering the MC Concept 1121 to protect it from dust, rain and sunlight.

Transporting by motor vehicle

The MC Concept 1121 must ALWAYS be secured while being transported.

To lift the wheelchair, use the pivot wheels at the front and back. Avoid lifting by the seat or side panels.

Secure it in the vehicle with belts attached to the two eyes at the front and two at the back. All the eyes are marked in yellow.



Important!



If your MC Concept/vehicle is fitted with a docking system from Dahl Engineering, read the instructions supplied with the docking system.

Transporting by plane

To transport the MC Concept by plane, the airlines require:

- the batteries to be aircraft approved
- the air to be let out of the tyres
- the battery leads to be disconnected (not always, but frequently).

A main switch can be fitted (optional extra).

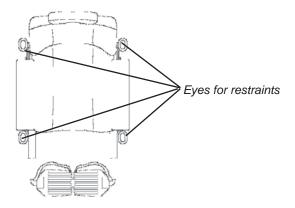
A battery declaration for air travel can be found on the Mini Crosser website:

http://www.minicrosser.dk/Download brochurer.asp

Towing

If you should be unfortunate enough to break down, the MC Concept can be towed or pushed. The MC Concept must always be turned off and disengaged for towing. See the section on Brakes.

To tow the MC Concept, secure a rope to the tow fitting on the front - marked in yellow. Do not tow faster than 5 km/h. The wheelchair will generate electricity when it is towed, with the motors acting as dynamos. If it is towed at more than 5 km/h, there is a risk of the motors generating enough electricity to damage the wheelchair and, in the worst case, cause a fire.



Changing the wheels

If you get a puncture in one of the pneumatic tyres or if a tyre is so badly worn that it needs to be replaced, follow the instructions below.

Tyres and inner tubes can be purchased from the authorised dealer who supplied the MC Concept.

The MC Concept must be TURNED OFF before you start.



Jack up the MC Concept onto a block of wood so that the wheels are clear of the floor/surface.



Anti-tilt wheel
Undo and remove the middle nut.

You will now be able to work the wheel loose.



Pivot wheel Undo and remove the middle nut.

You will now be able to work the wheel loose.





Central wheel.

You are recommended to contact your resource centre, etc. to obtain the correct tools.

Use a screwdriver to prise off the cover plug.

Remove the nut with a 17 attachment. (Use a new nut when reassembling).

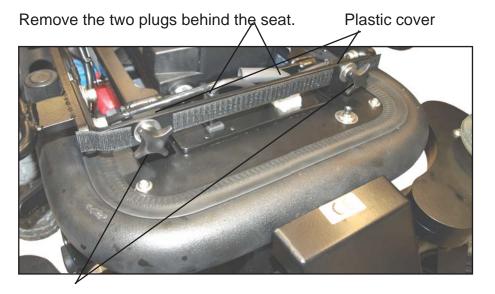
You may need to use a wheel puller, as the wheel may be very difficult to remove.

Replace the wheel with a washer and a new nut. Apply Loctite 243 (blue) to the thread. Push the cover plug back on.

Changing the battery

This is how to remove the batteries without using tools.

Always switch off the power on the MC Concept before starting work. Raise the bellows.



Undo and remove the two finger screws behind the seat. REMEMBER to replace the two plastic covers when reassembling.

If the MC Concept has leg supports, these must also be removed along with their plugs. These are on the right and left of the seat. See the descriptions below.



Manual central footplate

Undo the screws on both sides and remove the footplate.



Manual leg supports

Press the trigger and lift of the leg supports.



Electric leg supports

Push the catch down. Then twist the leg support out to the side. You will now be able to lift it off.

There are no external fuses that need to be removed.



Electric central footplate

Remove the plug under the seat on the right.

Undo the screws on both sides and you will be able to remove the footplate.

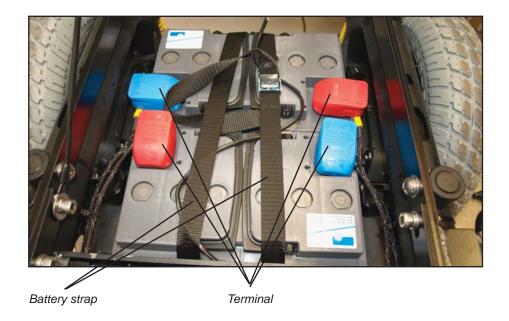


You can now tilt the seat forward for access to the batteries.

Remove the plus and minus terminals from both batteries. Loosen the strap around the batteries. The batteries can now be replaced.

Take care not to trap any cables when fitting the new batteries.

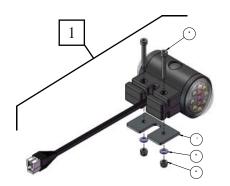
Keep hold of the seat while tilting it backwards.



Changing lights

In case one of the lights stop working:

- Check the power supply.
- Replace light module.



* For mounting on the other side: Mount bracket inverted.

REMEMBER! Red light should turn backward.

Pos	Art. No.	Description	Qty
1	CR-5-0000	Blink and position lights, LED, complete	1

Note! Lights are extra.

Lap belt



Lap belt

Is there is a need for it you can, as an accessory, mount a lap belt or harness belt on Jazzy 1121.

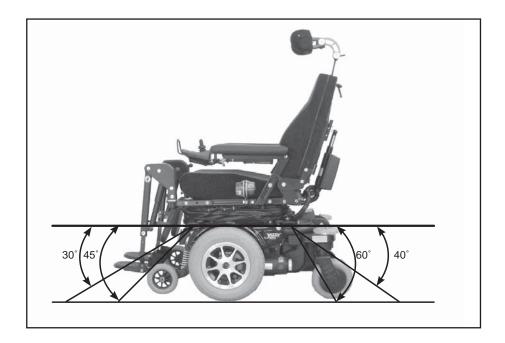
Securing to vehicle floor with belts

Dahl Engineering belt set for securing in motor vehicles. Item no. C2-0242

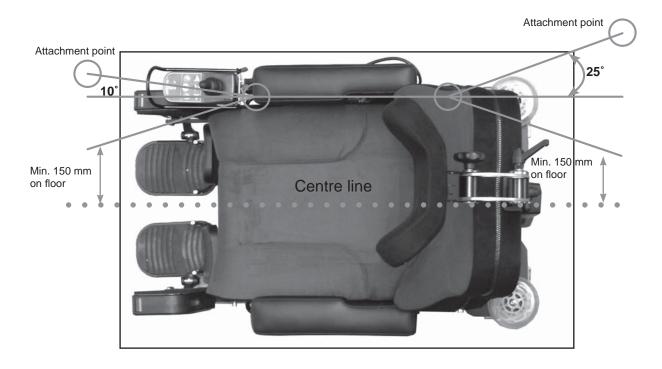
ALWAYS use four belts at the back and two at the front.

The belts must always be attached to approved fittings in the vehicle and the four eyes welded to the MC Concept.

The belts MUST be attached within the angles shown in the picture for optimum safety.



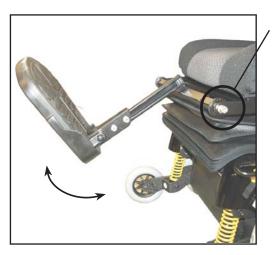






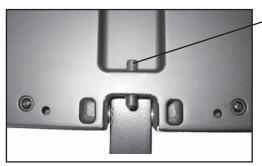
Footplate/footrest

Manual central footplate



To adjust the footplate to a comfortable angle for the legs, undo the screws shown here. You can now adjust the footplate.

REMEMBER to tighten the screws properly again.

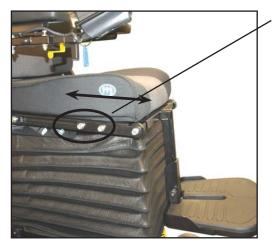


To adjust the angle of the actual footplate, use the set screw under the footplate.



To adjust the footplate up and down, undo the screws shown here. You can now adjust the footplate to the required height.

REMEMBER to tighten the screws properly again.



You can adjust the footplate forwards and back. Undo the two screws indicated on both sides.

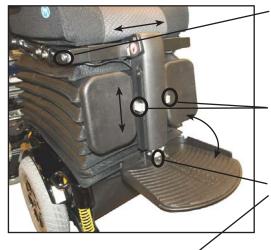
REMEMBER to tighten again on both sides.

Electric central footrest



You can adjust the footplate forwards and back. Undo the two screws indicated on both sides.

REMEMBER to tighten again on both sides.



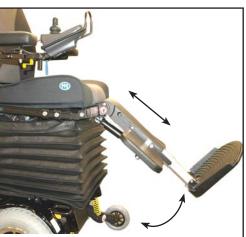
Centring the footplate: Undo the screws on both side - centre - then tighten again.

To adjust the calf pads, undo these screws. Adjust and tighten.

To adjust the footplate, use the set screw shown here







Length adjustment: Switch to the seat functions setting by pressing the up/ down button.

Toggle between the settings with the Select button.

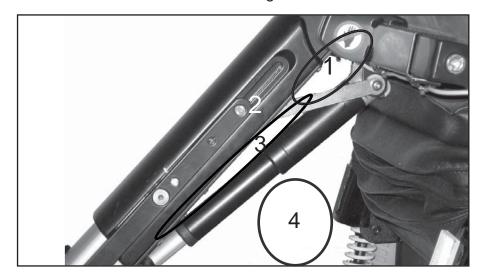
The icon for the left leg support starts flashing. Move the joystick up/down to change the length.

To adjust the angle: Use Select button until the icon for the right leg support starts flashing. Move the joystick up/down to adjust the angle.

Adjusting both parts at once: Move the joystick to the right until both leg support icons start flashing. Move the joystick up/down to adjust.

Note!

If you are using the electric central footplate, note that there is a risk of trapping in four areas when the footplate is moving forwards and backwards. See the figure below.



Manual footrests



You can adjust the footrests forwards and back. This can be done by undoing the two screws indicated.

REMEMBER to tighten the screws again.



To adjust the footplates up and down, loosen the clip.





To adjust the footrests up and down, loosen the clip.





You can move the footrests to the side.

To do this, press your finger where indicated. This means no tools are needed.



Adjusting calf pads up/ down and the angle by loosening these two screws. Tighten again after adjusting.

Electric footrests



You can adjust the footrests forwards and back. This can be done by undoing the two screws indicated.

REMEMBER to tighten the screws again.









Adjusting the height and angle using the joystick:

Switch to the seat functions setting by pressing the up/ down button.

Toggle between the settings with the Select button.

The icon for the left leg support starts flashing, and you can adjust it by moving the joystick up and down.

Use the Select button until the icon for the right leg support starts flashing.

If both icons are flashing, you can adjust both leg supports at once.

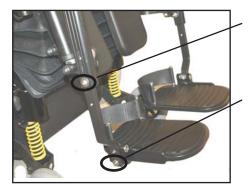
To adjust the calf pads, undo this screw. Remember to tighten again after finishing the adjustment.

Push the release handle and swing the leg support to the side.

In this position, you will be able to lift off the leg support.

Note!

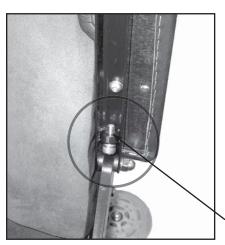
There are no leads that need to be removed.



You can adjust the height manually by undoing this screw, adjusting, then tightening again.

You can adjust the angle of the footplates by undoing this screw, adjusting, then tightening again.

Introduction to Ergo Lux



Armrest angle

You can use the adjusting screw to alter the angle of the armrest by about 15°.

The arm can be folded right up to make it easier to get in and out.

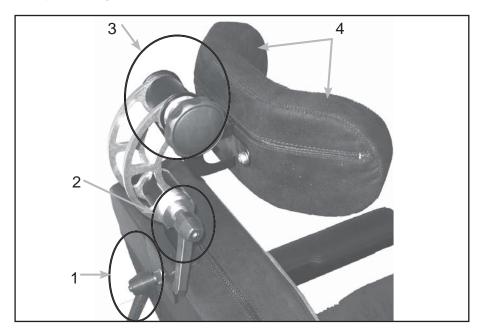
Adjusting screw.



Seat adjustment.

- 1. Height adjustment of armrest.
- Armrest position adjustment forward/back 2 screws.
- 3. Seat depth adjustment, both sides.

Adjusting the headrest



- 1. Height adjustment
- 2. Adjustment forward/back:
- 3. Headrest angle
- 4. Adjusting the headrest

Swing-away fitting



Release lever

The MC Concept can be equipped with a swing-away fitting. To use it, push the release handle and you can move the joystick to the side.

Adjusting the Spinalus backrest



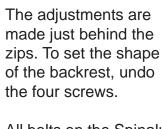




Easy access to adjustments through four large zips.



Fig. 1



All bolts on the Spinalus can be undone and adjusted for the user.

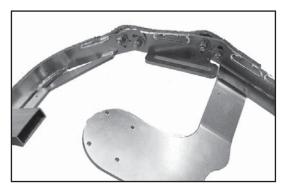


Fig. 2

Figs. 1 and 2 show the Spinalus backrest with maximum settings.

DAHL docking system

Dahl Engineering's newly developed electric Docking System sets completely new standards of flexibility and safety for wheelchair users.

It is the only system to be tested and TÜV approved under EU safety directives for passenger vehicles (M1), with electric mobility wheelchairs weighing 147 kg and using the built-in lap belt.

The testing proved that the docking station is strong enough to cope with a load equivalent to the wheelchair weight of over 200 kg + one passenger, if the safety belt is fitted to the base of the vehicle in the traditional way.

Contact DAHL Engineering for further information and documentation.









Reconditioning

When preparing a MC Concept for a new user it is important to check the following.

- Transaxle clean and check for leaks. Check bearings.
- Tyre pressure (see technical data).
- Condition of tyres (check for cracks and abnormal wear).
- Cables (check that the cable insulation is undamaged and that no cables are trapped, secure loose cables, check for signs of heat damage).
- Control unit with joystick (check for moisture, function test).
- Batteries (load test, check battery terminals and strap).
- Charger (check that the charger is supplying the correct charge voltage/current).
- Fuses (function test).
- Moving parts like leg supports, etc. (lubricate with acid-free oil).
- Check wheels (pivot wheels, anti-tilt wheels and central wheels).
 Clean and check for play.
- Check the brakes/disengagement.
- Bolts and washers (check bolts/washers everywhere on the wheelchair. Check they are tightened properly and that they are intact).
- Hoist and tilt (check for breaks on the frame, hoist and tilt. Check that there are no cracks or breaks - must not be welded).
- Frame (check for cracks, remove any rust, repaint. Must not be welded).
- Switches (check the switch controlling the speed reduction when the hoist is activated).
- Accessories (check the accessories, manual and electronic.
 Replace any faulty finger screws or handles).

- Test drive (test all functions at their maximum settings. Test drive the wheelchair under maximum load).
- The user instructions must be provided in a plastic folder on the seat.

If the panels have lost their shine:

- Wipe the panels dry with a damp cloth.
- Wax them with car wax.

Further information: See the Service Instructions.

Technical data

Wheel sizes:		
Safety wheels: front Ø15	50 mm / solid	
	Ø150 mm / pneumatic	
	00 mm / solid	
General information:		
Total length 89 c	cm	
Total width 61 c	61 cm	
Weight incl. seat (45 cm) 180	180 kg	
Weight without seat 156	156.5 kg	
Tyre pressure for central wheels 2.8	2.8 bar	
Max. speed 8 km	8 km/h	
Clearance 7.5	cm	
Change of level 7 cm	**	
With docking station 5.5	cm	
Turning circle 100	cm	
Motor 2 m	otors with central drive	
Max. user weight - standard 150	kg	
Max. user weight - HD 180	180 kg	
Suspension Yes		
Dynamic stability 6° =	: 10%	
Optional extras possible Yes		
Standard colour Blac	ck	
Classification Class	ss B	
Batteries:		
Batteries 2 x	12 V / 56 Ah	
Battery dimensions 27.8	3 x 17.5 x 19 cm	
Battery weight 2 x 2	21.5 kg	
Charging time At le	east 8 hours	
Charger 24V	DC - 10 amp	
Oriving distance Ca.	40 km (*)	
Electronic system 80 a	80 amp Dynamic	
Seats (Spinalus):		
Seat width 35,	40, 45, 50, 55, 60 cm	
Seat depth 32-5	32-52 cm	
Height of backrest 36,	36, 48, 56, cm	
Lights:		
ndicators / Lights LED	(Extra equipment)	

 $^{(\}mbox{\ensuremath{^{\star}}})$ Driving distance is depending on: temperature, wind, terrain, tyre pressure and user weight.

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