







Medema Production A/S

Delivery date: _____ Year 20_____

This vehicle was supplied by:

Date: /

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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 Mini Crosser X2 Cabin has been designed for users weighing max. 175 kg. The vehicle can be specially adapted at the factory for users weighing up to 200 kg.

Alarm

Temperature sensor, alarm system and tilt alarm are built into the same box that can be acquired as an option for the Mini Crosser X2.

Note!



The alarm is always turned off on delivery. See the chapter about "Programming the User Menu" to turn on the alarm.

Contagion!

A standard Mini Crosser is equipped with tyres that does not contage, but if another type of tyres are used, it can sometimes rub off on floor coverings, particularly linoleum. Medema A/S assumes no responsibility in case of contagion.

To prevent this, we recommend that you protect delicate floors with some sort of driving surface.



Intended occupant

The intended occupant of the Mini Crosser X is a person with limited ability of walking themselves.

The occupant must be able to see in order to register traffic signals and other road users when driving in traffic. The occupant can be deaf and/or speechless.

The occupant must have a cognitive ability to understand the operation of a scooter and its buttons and icons.

The Mini Crosser can be driven with only one hand either left or right.

The maximum occupant weight is 175 kg.

Help for the visually impaired

If you have difficulty reading small print in the user manual, we recommend that you visit our website, where you can read this manual in PDF format. You can enlarge the PDF manual on your PC monitor to suit your needs and preferences.

If you find it difficult to understand the manual and have general questions about the product, please feel free to contact us. You can find our contact info on page two in this user manual.

You can find manuals for all our products on our web page www.minicrosser.com. Or contact Medema A/S, and we can send the manuals in a mail for you. Find the contact information on page two in this manual.

FSN (Field Safety Notice)

All information concerning safety can be found at www.medema.com, which is always updated with the latest safety information. In the event of important safety-related changes, we will notify our customers directly (FSN).

Introduction

Congratulations on your new Mini Crosser X2 4W Cabin electric mobility scooter.

You have now taken possession of an electric mobility Mini Crosser developed for outdoor driving by active users. It is what is called a Class C vehicle in according to the European standard EN 12184.

For optimum enjoyment of this vehicle - and to avoid breakdowns and accidents - we recommend that you read this User Manual carefully. As a new user, you should pay particular attention to the section entitled "Driving the Mini Crosser X2 Cabin".

The Mini Crosser X2 Cabin is designed for safe travel for at least 10 years, up to a max. of 5,000 hours, provided it is service and safety inspections every third year, corresponding to 1500 hours of operation. The service must be carried out by 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 Mini Crosser X2 Cabin 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 Mini Crosser X2 Cabin.

If you have any further questions about the Mini Crosser X2 Cabin or this User Manual, you are always welcome to get in touch. Our contact details are as follows:

Medema A/S

Tel: +45 7010 1755 - Email: info@minicrosser.com Internet: www.minicrosser.com

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



CE Declaration of conformity

Model:

Mini Crosser X2 CAB

Medema-A/S declares on our sole responsibility that the product range mentioned below are manufactured in accordance with our incorporated standards and are in conformity with the following directives and standards if they are used according to our instructions:

Regulation (EU) 2017/745 of the European Parliament and of the Council of 5 April 2017 on medical devices.

EN 12184:2014 Electrically powered wheelchairs, scooters and their chargers - Requirements and test methods

Risk analysed according to ISO 14971:2012, Medical devices – Application of risk management to medical devices.

| Type of use | : | Transporting walking disabled people |
|-------------|---|--------------------------------------|
| Risk Class | : | I |

The product range in the Mini Crosser model-X2 includes the following items

| Product name | Basic UDI-DI |
|-------------------------------|----------------------|
| Mini Crosser X2 3W 10 km/h | 5707299MCX2-3W106A |
| Mini Crosser X2 3W 13 km/h | 5707299MCX2-3W136G |
| Mini Crosser X2 3W 15 km/h | 5707299MCX2-3W156L |
| Mini Crosser X2 4W 10 km/h | 5707299MCX2-4W106H |
| Mini Crosser X2 4W 13 km/h | 5707299MCX2-4W136P |
| Mini Crosser X2 4W 15 km/h | 5707299MCX2-4W156T |
| Mini Crosser X2 HD 4W 10 km/h | 5707299MCX2-4WHD105S |
| Mini Crosser X2 CAB 10 km/h | 5707299MCX2-CAB10KA |
| Mini Crosser X2 CAB 13 km/h | 5707299MCX2-CAB13KG |
| Mini Crosser X2 CAB 15 km/h | 5707299MCX2-CAB15KL |



The Mini Crosser or parts (fx. batteries) af the Mini Crosser can, for a fee, be taken to the nearest dealer for disposal in accordance with current environmental regulations.

| Manufacturer: |
|---------------|
| Address: |
| Tel. |

Medema A/S Enggårdvej 7, DK-7400 Herning +45 7010 1755

Date: 16.03.2020

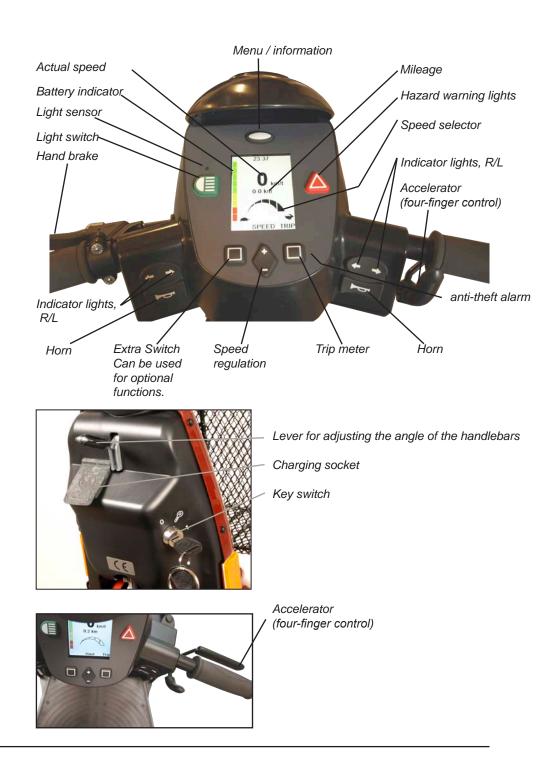
| Signature: | 2 |
|------------|---|
| 5 | |

Managing director Finn Dose

Control panel

Avoid subjecting the control panel to jarring and knocks. Take care when driving and avoid hitting obstacles.

The manufacturer accepts no liability in respect of the unauthorised opening, adjustment or modification of the control panel.



User menu

| Term | Description |
|--------------------|---|
| Menu / information | Press the button and a menu at the top of the display switches between "Date", "Time", "Complete km", "Complete running time", "Battery Voltage" Service "and" inclination "."Slope" is optional, and appears only if it is engaged. Button Menu / information are also used to modify the user parameters. Access these parameters by holding the menu button for approx. 3 sec. |
| Key switch | To start the vehicle: Turn the key to position (1). When the ignition key is turned to drive position (1), the display lights up. The Scooter can drive within approx. 1 second. The first half second after the Mini Crosser is on, the control is making a safety check of the electrical system. If the accelerator is affected during this time, the Mini Crosser will not be able to run, before the key again has been turned at 0 and back to 1 again. |
| Speed selector | The turtle indicates lowest speed range. 0-6 km / h. The hare indicates the highest speed range. Up to 15 km / h. Increase/decrease with + / - button. The icons turtle/hare can be turned on/off from the User menu. |
| Battery indicator | The left side of the display shows battery level indicator. Indicates that after approx. ½ seconds, the battery state of charge. Provides a more accurate indication after approx. 1 minute drive. When both red, yellow and green box lights are the batteries fully charged. Can be divided into 10 or 3 boxes. When the view is down the bottom of the yellow batteries should be recharged as soon as possible. If there is only light in the red boxes or fl ash- ing the batteries must be charged immediately. |
| Trip meter | TRIP button resets the trip meter. Can be used while driving. |
| Hand brake | Works on the left rear wheel and should only be used as extra brake / emergency brake and parking brake. It can be blocked in the locked position. Also available as a foot brake. |

| Term | Description |
|-------------------------|--|
| Accelerator | Front arm activates slowly and the Mini Crosser will start running forward. The more press, the faster it will run. When the lever is released, the arm fl ips itself back to the starting position and Mini Crosser stops. Upon activation of the posterior arm, the Mini Crosser run backward. The Magnetic brake on the rear wheels will strike at standstill, corresponding to the parking brake on a car. With speed regulation, speed can also be regulated downhill. The engine will then act as a brake. |
| Light switch | Turns on the front and rear lights. The key switch must however be turned to position 1 (drive). |
| Hazard warning lights | Turns on all lamps at once. Also works when the key is removed, or turned to 0 (stop position). |
| Indicator lights switch | Arrow left: lamp left side. Arrow Right: lamp right side. Activate the same button again to turn off fl ashing lights. |
| Horn | Electric horn which can be programmed in volume in the User Menu. Activated by pressing the horn button. |
| Charging socket | Turn off the Mini Crosser (key in position 0) during charging. Note that it is not possible to run while the batteries recharge. See also the section "Batteries and Charging." |

| Term | Description |
|--|---|
| Extras | |
| Anti-theft alarm | (Extra) With this parameter set to ON, the anti-theft alarm is turned on every time you turn off the Mini Crosser. An activated alarm is turned off by turning the key to 1 (drive). If you have no opportunity to get to the Mini Crosser with the key, the alarm will stop after approx. 20 seconds. Shake the scooter again, the alarm will be activated again. |
| Tilt Hældning 24 °C 0 km/t 0° 100 % Hast Trip | Tilt-symbols. |
| Tilt Alarm sideways | By exceeding the preset value, the symbol flashes and the horn hoots, if the parameter is enabled. |
| Tilt Alarm forw./backw. | By exceeding the preset value, the symbol illuminate and the horn hoots, if the parameter is enabled. |
| Overheating step 1 | Step 1: The symbol flashes and the speed is reduced to half power. Wait for 3-5 min and start again. |
| Overheating step 2 | Step 2: The symbol will illuminate and Mini Crosser stops. Wait 3-5 minutes and start again. |

Programming the User Menu

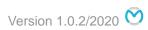
Access the menu by holding the Menu/information button for approx. 3 sec. Scroll up and down with the + / -button under the display. The active parameter is highlighted with yellow writing and blue background. Access the value of the selected parameter by pressing Enter. Change the value using the +/- button. Confirm with Enter and exit with the Menu/information button.

| Parameter description | | |
|-------------------------------------|--|--|
| Date Format | Choose between: ddmmyy - day/month/year mmddyy - month/day/year yymmdd - year/month/day | |
| Temp. unit (Temp. unit is extra) | Choose between Celsius or Fahrenheit. Displays ambient temperature. | |
| Limited speed (On/Off) | Limited speed On/Off. To edit this function you will be asked for a 4 digit code. From the factory this code is set to be 1234, but it can be altered by a service technician. Use the +/- button to each digit. Go to the next digit with the "Next" button. Confirm with "Enter" Turn this parameter On/ Off – Confirm with "Enter". | |
| Limited speed (value) | Limited speed - value. To edit this function you will be asked for a 4 digit code. From the factory this code is set to be 1234, but it can be altered by a service technician. Use the +/- button to set % value, that you want the scooteres max speed reduced to. Move in increments of 5%. | |
| Backlight (value) | The displays backlight can be changed in increments of 5%. Typically used in winter or when driving in darkness, where the intense light from the display may seem annoying. | |
| Backlight auto (On/Off) | Selecting "On" reduced intensity of the backlight automatically when darkness falls or when driving into a tunnel or similar. Light sensor sits just above the light switch. See the Control panel. | |
| Backlight threshold | Here max. light intensity is shown in%. Move in increments of 5%. | |
| Reverse Buzzer (Off/ Beep/Buzze) | Same warning horn as it is known from trucks in reverse gear. Choose from "Off", "Beep" - low horns, or "Buzzer" - sharp horns. | |
| Keyboard sound (On/Off) | With ON / OFF select whether to be acknowledged with a little beep when you press the contacts on the dashboard. These are: fl ashing, lights, hazard, menu, arrows and MENU keys. | |
| Blinker sound (Off/ Beep/Buzze) | Choose whether you want a sound when fl ashing lights on the scooter is on. Just as we know it from a car. You can select "Off", "Beep" - low horns, or "Buzzer" - sharp horns. | |



| Parameter description | | |
|---------------------------------|---|--|
| Clock | Set time and date using the up / down with arrows. Moving to the next digit by pressing the "next" button. Quit with the "Enter" | |
| Hazard enabled (On/Off) | By default hazard (emergency lights) is operable even if the scooter is switched off and the key is removed. If you wish the hazard not be activated with the scooter turned off, you should select "Off." here. | |
| Alarm enabled (On/Off) Extra | With this switch "On", the burglar alarm is turned on every time you turn off the scooter. The small lamp next to the "Trip meter" will fl ash a few seconds interval. An activated alarm is turned off by switching the key on the scooter. If you have no opportunity to get to the scooter with the key, the alarm will switch off after approx. 20th seconds. Shake / move the scooter again, the alarm will be activated again. | |
| Tilt Present (On/Off) Extra | With this parameter set to "On", will turn the tilt icons to red and blinking, and there will be a whining tone (if enabled) if you are running on a slope that is steeper than allowed. | |
| P&G fault log | Here are the faults that P & G engine management have registered. The system can record 8 different types of faults. Each fault can be recorded up to 30 times. The newest registered fault is written at the top of the list. They are shown as follows: [1502] 2 None None None None None None | |
| | In this case, the fault 1502 appeared twice. If you press ENTER on the fault you will get an explanatory text. In this case, "Solenoid brake fault" None means that there have been other fault. | |
| | In case of fault on the scooter, it will be a great help if the fault type can be given to the Mini Crosser or his representative during troubleshooting. | |

Temperature sensor, alarm system and tilt alarm are built into the same box that can be acquired as an option for the Mini Crosser X2 Cabin.



Preparations / Adjustments prior to use

Adjusting the height of the seat

Lift both armrests up, and fold the seatback. Release the handle so the seat can turn. Turn a little and lift the seat off.

Make sure you keep your back straight when lifting the seat, which is very heavy. (See below.)



Lift the seat off the seat tube.



Hight adjustment seat post standard



Loosen the counter nut. Use spanner, 17 mm.



Adjust the seat post to the desired position. The seat post is marked with a ring at each centimetre.

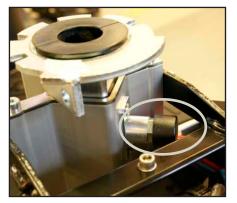




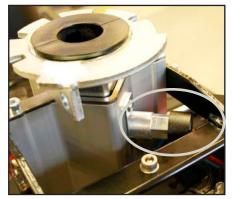
Be aware that the black line is holding its position after movement, so the seat is straight in front of the steering.

Tighten the screw, here after the counter nut. Mount the seat. Adjust the lining if necessary.

Hight adjustment seat post with position bolt (option)

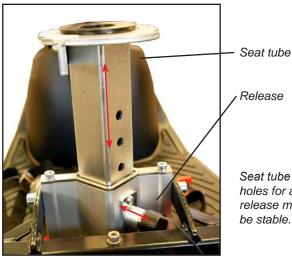


The release button pressed in. Press the button out to release the seat tube.



Release button pressed out. Now the seat tube can be moved up/down to the height you wish. Press the release button again and make sure it is fitted in one of the 5 holes in the seat tube.





Seat tube in top position. There are five holes for adjusting the seat tube. The release must be in a hole for the seat to be stable.

Electric seat adjustment

The Mini Crosser can be fitted with electric seat adjustment as an optional extra.

To raise the seat, press the switch up. To lower the seat, press the switch down. If the switch is released, the seat will stop automatically. (See figure below.)



For safety reasons, a switch has been incorporated that reduces the speed by 50% when the seat is raised more than 7.5 cm.



Switch for electric seat adjustment

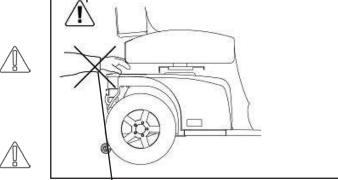
Electric seat adjustment. If the switch is pressed up, the seat is raised. If the switch is pressed down, the seat is lowered.



IMPORTANT!

The Mini Crosser is most stable when the seat is in its lowest position. Always drive carefully when the seat is raised. Never use the seat adjustment when driving on an uneven surface or in hilly terrain.

Take extra care when lowering the seat on a Mini Crosser using electric seat adjustment. Make sure that nothing is trapped in the space between the seat and the chassis.



Avoid trapping anything when lowering the seat.

Seat rotation

Pull the release lever back. The seat can be rotated 90° to either side. When the lever is released, it engages with the seat and holds it in place at 45° intervals.

Other seats that can be supplied for the Mini Crosser work on similar principles. The release lever is normally mounted on the right, but can be put on the left if so wished.



Release lever for seat rotation. Release lever for seat forward/back.



Steering column

Can be adjusted forward/back with the release lever. Pull down on the lever and pull the handlebars closer for a good driving position. Use the lever again and push the steering column forward to make it easier to get out.

The height of the steering column can be adjusted approx. 11 cm up/down. First remove the rubber plug covering the Allen screw. Adjust the height using a 4 mm Allen key.

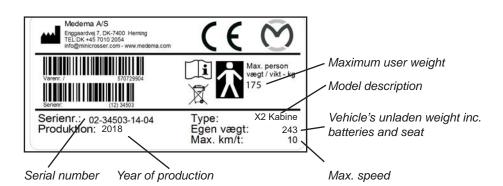




Serial number

All vehicles have a serial number plate showing the year of production 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.





Position of serial number plate on vehicle.



Driving the Mini Crosser X2 Cabin

Getting in and out

It is important to learn a safe technique for getting in and out of the Mini Crosser.

In general the following method should be followed:

- Make sure that the Mini Crosser X2 Cabin is off (switch turned to 0) when getting in and out, otherwise the Mini Crosser could start if the accelerator was touched inadvertently.
- Make sure that the brake is on. (Lever for disengaging motor in top position.)
- Put the steering column in vertical position.
- If necessary, raise the armrest.

Note! - Do NOT use the dors as support, when entering or getting out of the vehicle.

For some users the assistance of an attendant can be recommended. The attendant should:

- Take care not to injure him/herself when lifting/lowering/supporting the user.
- Make sure that the Mini Crosser is stable and unable to move. Turn off the Mini Crosser and check that the brake is on.
- Make sure that the seat the user is being moved to is stable.



IMPORTANT!

The Mini Crosser will turn itself off automatically after it has been stationary for 10 minutes even if the key has been turned to driving position. The battery indicator flashes with 6 lamps at a rate of about 3 seconds.

To restart the vehicle, the key must be turned to stop position (0) and then to driving position (1).



Turn the Mini Crosser off, return the steering column to upright position and raise the armrest.



General safety advice

Make sure that the backrest is upright and the seat is as low as possible.

Positioning belts are recommended if the user is unable to maintain a good driving posture independently.

Adjust your driving to road conditions. Take light, traffic and weather into account. Be particularly careful when driving in the dark or in bad weather, such as rain or snow. Avoid driving on inclines with poor surfaces, such as: snow, ice, new-mown grass, wet grass and wet leaves.



Never drive when under the influence. This applies not only to alcohol, but also to drugs and medicines.

Reduce speed immediately if you feel you are losing control.

Always use the indicators when changing direction.

Check that lights and indicators are working before driving off. Use your lights when driving after lighting-up time.

As far as possible, grip the handlebars firmly with both hands.



Take care not to have anything in the basket at the front that might inadvertently operate the accelerator.



WARNING! Do not lower the handlebars so far that the accelerator can hit you on the leg when you turn the vehicle and so be operated in advertently. If the handlebars need to be very low, a twist grip accelerator is recommended. This is particularly relevant if leg supports are being used.



ALWAYS switch the Mini Crosser off when it is not in use. Turn the key to 0.

Driving

Even though the Mini Crosser is very stable, it can tip over. Avoid sudden changes of speed and direction when travelling at high speed, on poor surfaces and, not least, on slopes. So be extra careful in following the driving tips given below.

Anti-tilt wheels are recommended for driving in very hilly terrain. (Optional extra)

New users are urged to practise the following in an area where there is no other traffic:

- Set the Mini Crosser to low speed. Drive forwards and backwards. Gradually turn the speed selector up and feel the change in the speed of the Mini Crosser.
- Practise starting and braking. Get used to the Mini Crosser's response time.
- Practise driving in a narrow space, similar to inside a shop or through a door.
- Practise turning, and get a sense of how much space is required. Always drive slowly when turning. Practise reversing too.
- Practise cornering and driving over obstacles and on slopes. Always drive straight up/down kerbs and ramps. Never at an angle.
 See the illustrations on the following pages.
- Try braking at different speeds and notice the stopping distances.
- If possible, try driving on different surfaces (road, grass and gravel).
- Practise assessing how far you can drive on a single battery charge. Note how quickly the battery indicator changes from green to yellow to red.

Note!



The driving distance of the Mini Crosser will be reduced when driving in hilly areas, into a head wind, in cold weather and with low tyre pressure.



Traffic regulations

The traffic legislation for Mini Crossers varies from country to country. Before starting to use the vehicle outdoors, it is the user's responsibility to familiarise him/herself with the relevant legislation.

Lap belt



Lap belt

If there is a need for it you can, as an accessory, mount a lap belt or harness belt on MC 1124.

The belt is designed to stay safe to use for at least 10 years.



Electromagnetic compatibility

The Mini Crosser is EMC tested according to EN 60601-1-2 and meets the requirements for Mini Crosser used in an environment with electromagnetic noise. There may, however, be rare situations in which electromagnetic noise can affect the Mini Crosser. Sources of such noise include radio and television stations, amateur radio transmitters and mobile phones.



If the Mini Crosser starts making involuntary movements or if the brakes are released, turn the Mini Crosser off as soon as it is safe to do so. In certain circumstances a Mini Crosser can set off shop alarms.

When driving in traffic...

Be particularly aware of the following when driving in traffic:

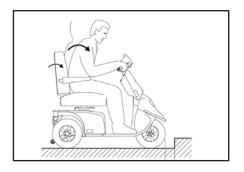
- The Mini Crosser is a low vehicle and not always easy for other road users to see. Make quite sure that other road users have seen you before driving onto the highway.
- Keep an eye on traffic behind you. Keep well over to the side of the road when driving on busy roads.
- Turning right and left at crossroads. Be aware of cyclists and pedestrians. Follow the rules of the road for cyclists.
- How quickly things are happening. How long do the lights stay green? How quickly are cars approaching? etc.



Specific driving situations

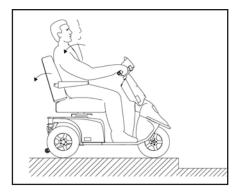
Up kerbs

- Stop at right angles to the kerbstone about 5-10 cm away from it. Keep an eye on other road users.
- Lean forwards.
- Accelerate moderately so that your vehicle can overcome the obstacle. Do not stop halfway, but reduce speed once the vehicle is up.
- If the kerb is too high, do not try again, but find an alternative route.



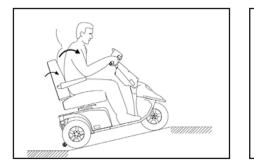
Down kerbs

- Lean back.
- If you are driving onto a road with traffic, keep an eye on other road users.
- Drive forwards and down the kerb at low speed. Make sure that your anti-tilt wheels (if fitted) do not catch on the edge.



Up a ramp/hill

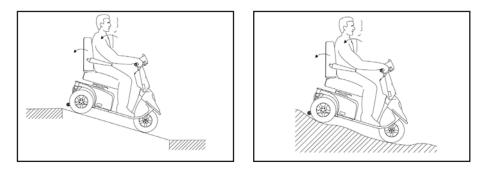
- There is a risk of tipping over backwards if the seat is pushed back when you start driving up a slope, e.g. a ramp.
- Pull the seat forward! Check that any ramp is stable.
- Lean forwards.
- Accelerate moderately so that your vehicle can overcome the obstacle. Do not stop halfway. Reduce speed once the vehicle is up. If you need to start on a hill, accelerate slowly so as not to tip over backwards.





Down a ramp/hill

- Check that any ramp is stable.
- Lean back.
- Drive slowly down. Avoid stopping midway on short, steep slopes. On long hills, it is advisable to stop every now and again if you feel your speed is getting too high.





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Across a slope

- Lean into the slope.
- Avoid sudden and sharp movements. This is particularly relevant when reversing.
- Always drive at low speed.

Long hills/difficult ground

The Mini Crosser is at risk of overheating on very long and steep hills or on very soft ground, possibly also combined with high user weight.

To protect the Mini Crosser motor from overheating, there is a built-in thermoswitch, which initially sets the Mini Crosser to half speed.

However, if you carry on moving over difficult ground, the Mini Crosser will at some stage stop completely, and the battery indicator will flash with 6 lamps. The Mini Crosser must be left to cool down for 3-5 minutes before it can start again.

To reset the fault, switch off the Mini Crosser then turn it on again.

If the Mini Crosser has not had long enough to cool down when it is restarted, it will initially only run at half speed.

Note:

The situation described above will never happen in normal use. It only happens if the conditions are extremely challenging.

Anti-tilt wheels / stabilisers

The Mini Crosser is a very stable vehicle. HOWEVER, in the case of incorrect weight distribution or careless driving there is a risk of tipping over.

We therefore recommend fitting anti-tilt wheels in such circumstances. (See picture below)

(Anti-tilt wheels / stabilisers are optional extras.)



Anti-tilt wheels



General care and maintenance

A Mini Crosser X2 Cabin does not require much maintenance. It should be kept in a generally good condition, however. The following should be checked regularly:

- Tyre pressure (if pneumatic tyres are fitted)
- Tyre wear
- Keep the control panel, the charging socket and the electronics box under the seat dry.
- Battery charging



Never wash the Mini Crosser with a high-pressure cleaner or direct water jet! This could damage the Mini Crosser's electronics.

To keep the Mini Crosser in good condition safety-wise, we recommend the following regular checks:

Daily:

• Test the indicators and driving lights before using the Mini Crosser in the dark or poor visibility.

Every three months:

Test the brakes and motor disengagement With the disengagement lever up, it must not be possible to push the Mini Crosser.

Test the brake disengagement function When the brake disengagement lever is down, the battery indicator should flash to show an error if the Mini Crosser is turned on. In this case the Mini Crosser must not be able to move when the accelerator is activated.

Test the hand brake.

Apply the hand brake for a couple of seconds at low speed. This will ensure that the lever arm and brake shoes do not seize up.

Lubricate the lever arm on the brake hub with acid-free oil - lefthand rear wheel.



Service (Technician)

The Mini Crosser X2 is designed for safe travel for at least 10 years, up to a max. of 5,000 hours, provided it is serviced and safety-checked every third year, corresponding to 1500 hours of operation. The service must be carried out by an authorised workshop.



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

In the eyes of the law a Mini Crosser X2 4W Cabin with a maximum speed of 15 km/h is a cycle, so separate insurance is not required.

Most contents/home insurance policies include third-party liability insurance for cyclists and so also cover Mini Crosser X2 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.

Batteries

The Mini Crosser uses sealed, maintenance-free GEL or AGM batteries.

They do not generate gas and do not have to be topped up with water.

Battery weight

56 Ah = 21 kg 80 Ah = 26 kg 110 Ah = 38 kg

Charging

Please NOTE that the Mini Crosser can be equipped with several types of charger (ask your dealer for information on the various types).



IMPORTANT! Only ever use a charger designed for charging dry maintenance-free batteries. The max. charging current is 12 A.

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

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

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

The battery manufacturer recommends that the batteries are charged at a temperature of $+ 10^{\circ}$ to $+30^{\circ}$ C in order to achieve a charging time as specified in the section Technical data.

The charging time will be extended by approximately 60% at a temperature of $+5^{\circ}$ C compared to a temperature of $+20^{\circ}$ C. This is because it is chemically more difficult for the battery to absorb the current.

It is recommended to charge the Mini Crosser in a heated room. If it is not possible every day, then at least once a week.

Be aware that the capacity of the battery decreases with time, as well as at low temperatures. The battery capacity at -10°C is half of the capacity at +20°C.

New batteries only achieve full capacity after about 20 charge/ discharge cycles.

Note!



The Mini Crosser should be charged when the vehicle is not in use. The type of charger supplied by the factory works in a way that it automatically switches over to trickle charging (very little electricity consumption) when the batteries are fully charged.

The charger will flash until it is finished. Then the indicator on the charger will be constantly lit.

The charger CANNOT overcharge the batteries! So let the charger stay connected until the Mini Crosser is used again.

Note!



Since the Mini Crosser also uses some power even when it is turned off and the ignition key is turned to 0, it is recommended that it is always connected to the charger when not in use.

Battery disposal

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

Take care when handling any leaky batteries, as they contain corrosive acid.

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



Standby power

The X2 Mini Crosser is equipped with an advanced display solution. The system requires that there is always a small standby power consumption of 70 mA.

If you do not make sure that the Mini Crosser is set to charge at appropriate intervals, the batteries will fully discharge over time.

For this reason, we recommend that the Mini Crosser is always set to charge when it is not being used.

Below is a recommended schedule of how many days before a brand new battery is 100% discharged. The discharge time depends on factors such as the ambient temperature, age and how many Ah the battery has been rated in C20.

| Ah in C20 | 100% discharged after |
|-----------|-----------------------|
| 56 Ah | 33 days |
| 85 Ah | 47 days |

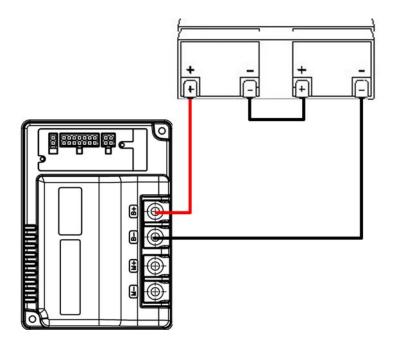
The calculations in the table is only guiding!

Note

If the battery is 100% discharged, it is not possible for the charger to start charging the battery.

There is no warranty on batteries that have been damaged as a result of deep discharging.

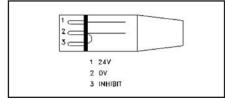
If you are not using the Mini Crosser for a longer period of time, for example during winter storage, you can choose to disconnect the one pole to the fully charged batteries. This way there will be no consumption of standby power. It is important to fit the batteries correctly. The battery terminals are marked +/-. They must be fitted as shown in the sketch below. Make sure that the terminals are properly tightend. For the same reason there must not be any burrs on the cable terminals.



Be aware that the Mini Crosser can varies types of chargers. Contact your dealer for more information about the different types.

Do NEVER use other chargers than the one from the factory without contacting your dealer first.

Polarity of charging plug



NEUTRIK NC3MX charging plug



Connect the charging plug to the 3-pin socket on the steering column. The charging socket is located under the protective cover.



Storage

The Mini Crosser 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.

In the case of long-term storage we recommend covering the Mini Crosser to protect it from dust, rain and sunlight.

Fuel for heater

The tank for fuel is placed behind the seat, and filled from the outside.

Use ONLY paraffin or diesel.



In the front, right side of the Mini Crosser X2 Cabin, you find the the exhaustion from the heater.





NOTE! It gets VERY hot.



Exhaustion from heater.

Heater



- Display for:
- adjusting the temperature
- remove fault code.
- turn heater on/off

Indicator light for on/off and fault code readout.

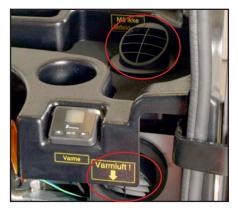
For more information: see Eberspäcker's user guide.





IMPORTANT!

The heating ribs by the window and by the legs should NOT be covered up when the heating is on. That will cause overheating of the heater



Windscreen wiper / washer

Start the windscreen wiper by turning this knob.

Notice the smooth speed ajusting.

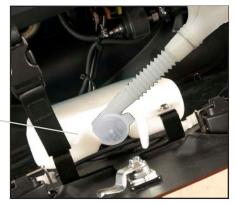
Windscreen wiper - turn the knob. -

Washer - press this button

The Container for washer fluid is placed under the front cover.

The container for the washer fluid.





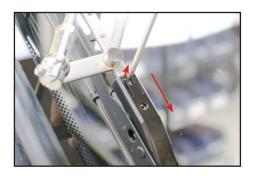


Replacing the wiper blade



To exchange the wiper blade, do the following:

Screw this screw out.



Lift carefully, so you can pull the wiper blade over the pin.

Mount a new in reverse order.

Replacing the bulb - headlight

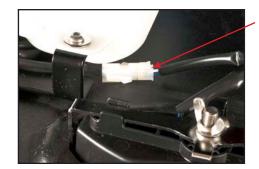


Open the front cover, by turning the handle 90° counter clockwise, and pull.



The headlight is attached with a fitting on the back of the screen. A single finger screw holds it firmly in place. Remove the screw.





Remove the headlight. Detach the plug, and it is free to change.

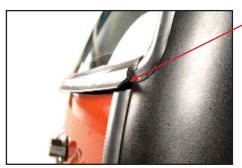


New headlight set.

Mount in reverse order.



The headlight can be adjusted up/down by turning this screw.



NOTE!

Be aware that drain list are not trapped when the front cover is closed.

It MUST cover the edge of the front cover.



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 Mini Crosser.

The Mini Crosser must be TURNED OFF before you start.



Changing the wheels on the 4W model

Remove the hubcap. 5 mm Allen key

- Undo the five bolts.
- Take the wheel off.
- When the wheel is put back on, the spring washers must be refitted between the wheel rim and bolts.

The bolts must be done up tightly.

Remove the valve cap and use a screwdriver or similar to open the valve so that the air can be



REMEMBER!

- to let all the air out before taking the wheel apart to repair a puncture
- to secure the bolts with spring washers



released.

Important!

There is a risk of explosion of the wheel, if the two rims are being taken apart with air in the tire.







Remove the flange with the 5 screws (5 mm Allen key).



Replace or patch the tube. Ensure that there are no foreign objects in the tyre before the tube is replaced.

Pump air into the tube so that it is positioned correctly in the tyre, but do not fill it up completely yet.

In this way the tube will not get jammed, when the flange is mounted again.

Put the flange back on.

Pump up the tyre to the correct pressure. (See technical data)

Put the wheel onto the Mini Crosser again.

REMEMBER! The spring washers between the screws and the wheel rim.





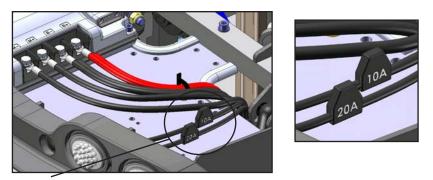
Fuses

The Mini Crosser has the following protection systems:

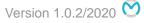
- As a safeguard against overheating There are two switches are integrated in the engine. By incipient overheating speed is reduced to half power, and by prolonged overheating the scooter will stop. After cooling for 3 to 5 minutes, the scooter is able to reach full speed and traction.
- The control fuse protects against mains faults. It is located under the rear cover.
- The main fuse protects against shortcircuits in the main current circuit. The fuses are located under the rear cover behind the batteries. Fuse type DIN 2581 - 100A.



- If the ignition key is turned at the same time as the accelerator is operated, the vehicle will not move off for safety reasons.
- The lights and horn are protected by electronic fuses, which protect against any short-circuiting that may occur. To prevent accidental short-circuiting when a bulb is changed, the Mini Crosser must be turned off when the new bulb is fitted and then turned on again afterwards.



Take the rear cover off. The plastic cover can be removed by squeezing the sides. Now the fuses can be replaced.





Open the front cover, by turning the handle 90° counter clockwise, and pull.



Under the front cover you will find the fuse for the heater and windscreen wiper.

- Fuse for windscreen wiper.
- Fuse for heater.

Fuse for Easy Start Select display



NOTE!

Be aware that drain list are not trapped when the front cover is closed.

It MUST cover the edge of the front cover.



Brakes

There are four braking systems on the Mini Crosser:

- Motor brake adjusts vehicle speed also when going downhill.
- Magnetic brake the magnetic brake is automatic and engages when the Mini Crosser stops. In an emergency, the Mini Crosser can be stopped instantaneously by turning the key switch. Please note that this will cause very sharp braking. The rear wheels will lock.

Must NOT be used in the normal course of driving. The brake must never be disengaged mechanically using the disengagement lever on a slope. This function is only designed for use when pushing the Mini Crosser on a flat road.

- Electric safety brake if the brake is somehow disengaged on a slope/hill, the Mini Crosser will brake automatically when it reaches a certain speed. There is an electric safety feature in the control system, which works even if the battery is disconnected. This is also the reason why the Mini Crosser cannot be towed at more than 5 km/h. See the section about towing.
- Hand brake intended as an emergency brake and parking brake. It must be operated with caution when driving in slippery conditions and downhill.



When using the hand brake as a parking brake, lock it in braking position by pressing the button in while applying the brake. To release the brake, press the button

again.

Hand brake lock



Disengagement

Manual

The manual disengagement lever is placed underneath the back cover. Follow this procedure to use it.

- Turn the key to (0) position.
- Push the disengagement lever down. The motor brake is now disengaged and the vehicle can be pushed or towed, but not drive itself.

Electronic

The yellow electronic disengagement button is placed on the back of the vehicle. This only works when the scooter is turned on.



NOTE!

Don't ever disengage on sloping terrain.

If the brake is somehow disengaged on a slope/hill, the Mini Crosser will brake automatically when it reaches a certain speed. There is an electric safety feature in the control system, which works even if the battery is disconnected. This is also the reason why the Mini Crosser cannot be towed at more than 5 km/h. See the section about towing.

Once the motor brake has been disengaged, the Mini Crosser can only be stopped with the hand brake.



Push the disengagement lever down to disengage (only hand brake works) and push up to reactivate the motor (normal driving now possible).



Disengagement lever





Electronic disengagement. Works only when the scooter is turned on.

Disengagement button.



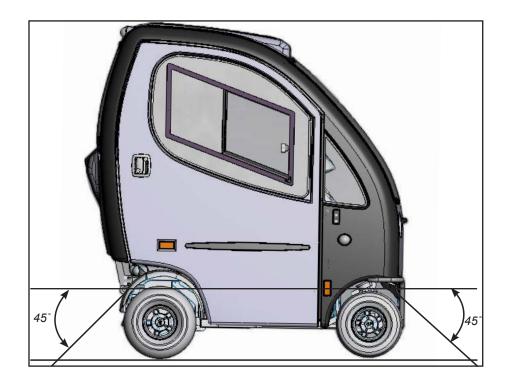
Securing to vehicle floor with belts

Dahl Engineering belt set for securing in motor vehicles.

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

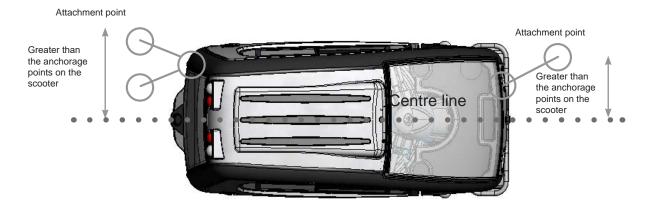
The belts must always be attached to approved fittings in the vehicle and the four eyes welded to the Mini Crosser.

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













Remember to turn the Mini Crosser off during transport. Turn the key to 0.

However, if at all possible, we recommend that the user occupies one of the seats in the motor vehicle. All other things being equal, this is safer.



Transporting by plane

If the Mini Crosser is to be transported by plane, the airlines require:

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

The seat and cover have to be removed to disconnect the battery leads.



Lift the armrests up, and fold the seat completely. Release the seat turn turn the seat a little and lift it of.



Remove the thumbscrew and remove the battery cover.



Disconnect the (+) pole.

A battery declaration for air travel can be requisitioned from Medema A/S. See contact informations on page two.

Towing

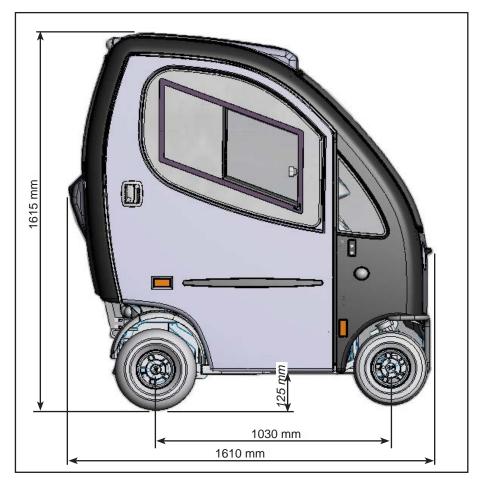
If you should be unfortunate enough to break down, the Mini Crosser can be towed or pushed. The Mini Crosser must always be turned off and the motor brake disengaged during towing. See the section on Brakes.



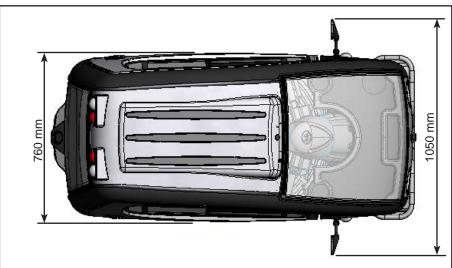
If the Mini Crosser is to be towed, secure a rope to the tow fitting on the front - marked with a yellow "hook mark". Do not tow faster than 5 km/h. The Mini Crosser will generate electricity when it is towed, with the motor acting as a dynamo. If it is towed at more than 5 km/h, there is a risk of the motor generating enough electricity to damage the Mini Crosser and, in the worst case, cause a fire.

The Mini Crosser will try to brake if it is towed at more than 5 km/h.





Dimensioned drawing, Mini Crosser X2 4W





Introduction to the Ergo2 seat

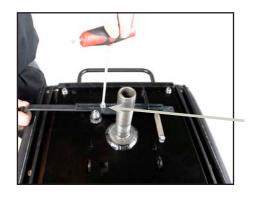
The Ergo2 seat is designed to stay safe to use for at least 10 years.



Lever for rotating the seat

The lever must be pulled back to rotate the seat. The seat can then be rotated to each side, locking at each 45°.

The lever is spring-loaded, and the seat is locked automatically when the lever is released. This lever is located on the right side as standard, but can also be positioned on the left side. When the lever is located on the left-hand side, it must be pushed forward in order to rotate the seat instead of pulling back.



Out / in adjustment of the lever for rotating the seat

Lift the seat off the vehicle.

Loosen the two Allen screws and the lever can now be adjusted out and in to the desired position.



Placement of lever for rotating the seat on the left-hand side

Remove the two Allen keys and pull the lever out. Insert the lever from the lefthand side and tighten the Allen screws. When installing the lever on the left-hand side, the lever must be pushed forward to rotate the seat..





Mount the seat again

In order to ensure that the seat returns to the correct position, the lever for rotating the seat must be released in order to place the seat.



Lever for fwd/bw adjustment of the seat.

Pull the lever up to release the seat on the slide rail.

Then the seat can be moved forward or backward as desired with 200 mm of travel.

When the lever is released, the seat will automatically lock into place in the closest position.



Height adjustment of armrest

Unzip the zipper on the side of the backrest and the backrest itself.



Unscrew the Allen screw and the armrest can be pushed up or down as needed. It can be adjusted 140 mm.





Width adjustment of armrest

Each armrest can be adjusted 25 mm on each side. Loosen the Allen screw and the armrest can be adjusted longitudinally.



Adjusting the angle of the armrests

The adjustment screw makes it possible for the armrest to be adjusted 60°.

The armrest can be tilted up to facilitate entry and exit.

Adjusting the angle of the backrest.

The angle of the backrest can be adjusted 45° backward and 90° forward. This is done by pulling the lever on the righthand side of the seat.

Backrest tilted 45° backward.







Backrest tilted 90° forward.

This is why the seat does not necessarily need to be removed during transport, e.g. in a car.



Backrest forward / back.

Loosen the specified screws on both sides.



The depth of the seat can now be adjusted by sliding the seatback forward and back.

Shown here with 320 mm seat depth.

The seatback can then be moved backward to the edge of the rail and forward to the desired position. Tighten the screws after adjusting.

Shown here with 550 mm seat depth







Height adjustment of headrest.

Press the button and the headrest can be raised and lowered as needed.

Adjustment of the headrest forward and backward.

The headrest can be tilted forward and backward as needed.

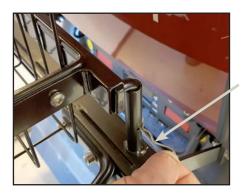
Basket on the back of the cabin



Mounting of basket on the cabin. (Optional accessory)



The basket with the mounting bracket. You have to adjust the width by loosening the four screws - pull or push untill the width fits.



Mount the basket on the brackets and now it is ready for use.

Remember to insert a locking split after mounting.

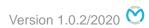




Troubleshooting

The following is a list of various problems that, in our experience, may occur. The list gives possible causes and remedies.

| Problem | Possible causes | Remedy |
|---|--|---|
| The Mini Crosser will not go. The battery indicator is not lit. | The key has not been turned to start. The batteries are com- pletely flat. The control fuse has blown. The main fuses have blown. | Turn the key and wait 5 sec. before activating the accelerator. Charge the batteries. Change the fuse. Contact supplier. |
| The Mini Crosser will not go, but the battery indica- tor is lit. | The Mini Crosser has been overloaded. The hand brake is on. There is a fault in the electronics. The batteries are flat. The charging plug has not been removed. | Wait approx. 1 min. before trying again. The vehicle must be turned off (see section on Fuses). Release the hand brake. Contact supplier. Contact supplier. Remove the charging plug. |
| Scooter drives unevenly, choppy while driving. | Can be caused by poor connection of electricity. | Turn off the scooter im- mediately and seek out an authorised workshop. If you continue driving, heat can be generated in the poor connection resulting in a risk of fire. |
| The driving speed is too low. | The speed selector is on slow. The electronics are over- loaded. There is too little air in the tyres. | Change to a faster speed. Stop and wait a few sec- onds before starting. Pump the tyres up to the right pressure. |
| The driving distance per charge is too short. | There is a problem with the batteries. Low temperature. There is a problem with the charger. There is too little air in the tyres. The charging method is wrong. | Charge the batteries and check that the green lamp on the charger lights up before driving off. Contact supplier. Pump the tyres up to the right pressure. Read the section on Charg- ing in the User Manual. |
| The charging lamp on the charger does not light up when the charger is connected to the mains and the Mini Crosser. | No power to the switch. Fault in cable. Fault in charger. | Turn the switch on. Contact supplier. Read the operating instruc- tions for the charger. Contact supplier. |



| Problem | Possible causes | Remedy |
|--|---|---|
| The "ready" lamp on the charger does not light up even though the charger has been on for 10-12 hours. | There has been a power cut. The charger is doing a top-up charge. There is a problem with the batteries. There is a fault in the charging plug for the Mini Crosser X2. | Reconnect the charger and repeat the charging process. Check again half an hour later. Contact supplier. Push the charging plug all the way in and repeat the charging process. Read the operating instructions for the charger. |
| The "ready" lamp on the charger lights up even when partly discharged batteries are connected. | The fuse in the charger has blown. The switch in the charging plug is malfunctioning. | Contact supplier. Contact suppliers - read the operating instructions for the charger. |
| The charger lamp is showing an error. | The charging plug has not been inserted or there is a mains fault. The battery voltage is too low for charging to start. | Push the charger plug in or contact the supplier. Read the operating instruc- tions for the charger - or contact the supplier. |
| Thermometer symbol is half-red and flashes. The scooter is running at half speed. | The motor is overheating and has reached the limit of when the first safety switch responds. | Immediately pull over at a safe distance from other traffic and stop the Mini Crosser. Wait until the tem- perature icon disappears, ca. 3-5 min. Turn the Mini Crosser off and on again to continue at full speed. |
| Thermometer symbol is red and alluminated. The scooter has stopped. | The motor is overheat- ing and has reached the limit for when the security swithc shuts the motor off completely. | If the Mini Crosser has stopped at an inappropriate place in traffic, turn on the emergency lights. If pos- sible disengage the scooter and push it away from traf- fic. Let Mini Crosser cool until the temperature icon disappears - approx. 3-5 min. Turn the Mini Crosser off and on again. Now it can run normally again. |
| Mini Crosser can not remember the time. | Battery on main circuit board has run out of power. | Contact service technician. |
| The heater doesn't work. | Need paraffin/diesel. The fuse has blown | Put on paraffin og diesel. Change the fuse. Read the Webasto user guide for more information. |
| The washer doesn't work. | Washer fluid i missing. The fuse has blown. | Put on washer fluid. Change the fuse. |
| The windscreen wiper doesn't work. | The fuse has blown. | Change the fuse. |



Electronic faults

If there is an electronic fault, a number of lamps in the battery indicator will light up. The following table shows what they mean.

| Lamps | Causes | Remedy |
|--|---|--|
| 1 lamp | The batteries need charging or the connection to a battery is poor. | Check all connections between the controller and batteries. If these are fine, try charging the batteries |
| 2 lamps | Poor connection to the motor. | Check the connection between the motor and controller. Contact supplier. |
| 3 lamps | Short-circuit between the motor and a battery connection. | Contact supplier - say how many lamps are lit. |
| 4 lamps | Not in use | |
| 5 lamps | Not in use | |
| 6 lamps | The S180/200 is prevented from driving. Inhibit 2 is active. This may be due to the battery charger being connected, the plug to the thermal switches be- ing disconnected, a fault in the thermal switch or the scooter is overheating. | Stop the unit and wait 3-5 minutes before restarting. Turn the key to 0 and then to 1 to reset the fault. Contact supplier. |
| | The Mini Crosser will turn itself off automatically after it has been stationary for 10 minutes. The battery indicator flashes with 6 lamps at a rate of about 3 seconds. | To start X2 again, the key must be turned to position 0 and back to I. |
| 7 lamps | Accelerator fault. | Contact supplier. |
| 8 lamps | Controller fault. | Contact supplier. |
| 9 lamps | Poor connection to motor brake. Magnetic brake is disengaged. | Check the connections from brake to controller, or push the brake lever up. Check that the vehicle is not disengaged. |
| 10 lamps | The controller has been sup- plied with a high voltage in excess of 38 V. Usually seen in the case of a poor connection. | Check all connections from the batteries to the controller. |
| Running lights | Charger is connected. Remove charger. | Remove charger. |
| Running lights from the center and out. | The accelerator has been akti- vated during start up. | Turn the key back to 0 and to 1 to reset the fault. |

Programming

Â

NOTE! For safety reasons, modifications may only be made by trained personnel, such as Mini Crosser service engineers and consultants or authorised service personnel at mobility centres, etc.

Technical data

| Technical data | X2 Cabin |
|--|-------------------------------------|
| General information: | |
| Transport height without seat (Steering column folded down) | 161,5 cm |
| Total length: Total length incl. anti-tilt wheel: Total width: | 161 cm 161 cm 76 cm |
| Total weight incl. batteries and Ergo Std seat. | 243 kg |
| Weight without seat (Ergo Standard 45 cm). | 217 kg |
| Dynamic stability in all directions. | 10° - 17% |
| Kerb climbing | 11 cm |
| Max. speed Option 1 Option 2 Option 3 | 10 km/t 13 km/t 15 km/t |
| Braking distance 10 km/h 13 km/h 15 km/h | 2,0 meter 2,8 meter 3,5 meter |
| Controller | S-200 |
| KW transaxle | 0,7 kW |
| Turning circle / radius | 330 cm / 165 cm |
| 3 point turning circle / radius | 190 cm / 95 cm |
| Max user weight - standard | 175 kg |
| Max user weight inc. assessories HD version. | 200 kg |
| Wheels | |
| | |
| 1503-1003 Wheel, model-X, 2,50-3,30-8".complete with rim and tyre. | 2,8 bar |
| 1503-1114 13x5.00-6" ext. Ø325 mm Wheel Norway black - T, E, Nordic, MaxX, MaxX HD, M and X | 4,1 bar |

| Technical data | X2 Cabin |
|---|--|
| 1503-1115 | |
| 13x5.00-6" ext. Ø325 mm Wheel Norway black w/spikes - T, E, Nordic, MaxX, MaxX HD, M and X | 4,1 bar |
| 1503-1336 13x3.00-8" ext. Ø340 mm Wheel black - T, M and X | 3,5 bar |
| 1503-1273 13x3.00-8" ext. Ø340 mm Wheel black puncture free - T, M and X | PUR |
| 1503-1012 3,50-8" ext. Ø370 mm Wheel, model X Used only as rear wheels and never with 15 km tran- saxle | 2,5 bar |
| Classification, ISO | Class C |
| Seats: | |
| Effective seat width Ergo2 child Ergo2 standard Ergo2 HD Eblo | 35 cm 40, 45, 50 cm 60, 70 cm 50 cm |
| Effective seat depth Ergo2 child Ergo2 standard + HD Eblo | 20-43 cm 32-55 cm 43 cm |
| Seat plane angle | 3° |
| Backrest height Ergo2 child Ergo2 standard + HD Eblo | 44 cm 54 cm 52 cm |
| Seat surface height from ground to front edge Ergo2 (child, standard + HD) Eblo | 59 - 69 cm 61 - 71 cm |
| Seat surface height from footrest to front edge Ergo2 (child, standard + HD) Eblo | 42 - 52 cm 44 - 54 cm |
| Backrest angle Ergo2 (child, standard + HD) Eblo | -90° til +48° -54° til +80° |
| Batteries: | |
| 56 Ah Batteries. | 35 km (*) |
| 85 Ah Batteries. | 45 km (*) |
| Battery type: Standard: Option: | 2x12V / 56 Ah 2x12V / /85 Ah |

| Technical data | X2 Cabin |
|---|------------------------------------|
| Max battery meassure i cm. 56 Ah 85 Ah | 26,5 x 17 x 23 26 x 17,1 x 21,5 |
| Battery weight pr. stk. 56 Ah 85 Ah | 21 kg 27 kg |
| Energy consumption in kWh, when charging from "empty". 56 Ah 85 Ah | Ca. 1,5 kWh Ca. 1,5 kWh |
| Charger, 24 V DC 56 Ah 85 Ah | 6 - 10 A 6 - 10 A |
| Approx charging time at 20 ° C | 8 hours |
| Lighting: | |
| Bulb, headlight | 24 V - 18 W |
| Diode, rear light | 24 V - 2 W |
| Diode, indicator | 24 V - 2 W |
| Standard colour | Grey |
| Noise | |
| Noise level | 60db |
| The Mini Crosser X2 Cabin complies w standards: | ith the following |
| The Mini Crosser has been tested for the require- ments described in: | EN 12184 |
| Miscellaneous | |
| Rear basket, max load | 15 kg |
| Wheel bolt tighten max: Dry Greased with fat | 12 Nm 6 Nm |

Weight of the seats



This is our standard Ergo2 45 cm seat, the heaviest part of the X2 to remove. The label showing the seat's weight is located as shown above.

| Seat model | Weight |
|------------------|--------|
| Eblo seat 45 cm | 19 kg |
| Ergo2 seat 35 cm | 20 kg |
| Ergo2 seat 40 cm | 26 kg |
| Ergo2 seat 45 cm | 27 kg |
| Ergo2 seat 50 cm | 29 kg |
| Ergo2 seat 60 cm | 36 kg |
| Ergo2 seat 70 cm | 37 kg |



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Own notes

