

Instruction Manual

Neo XXL



Enjoy mobility.





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1. Introduction

Dear user,
You have decided on a high-quality Bischoff & Bischoff electric wheelchair, and we would like to thank you for your trust.

The electric wheelchair was designed to offer you many advantages and meet your needs. The wheelchair can be fitted to your individual body size thanks to a multitude of adjustable features and optimal adaptability such as the length of the lower leg, the recline of the backrest, the sag of the backrest as well as the swing away function of the control unit and the choice of mounting the control unit either to the left or the right side.

The electric wheelchair is designed for outdoor use.
Before using your new electric wheelchair for the first time, please read and follow the instructions in this manual carefully. The instruction manual is an integral and necessary part of the wheelchair. This is why you should keep it close by and include it when passing on the wheelchair to someone else.

Any repairs and adjustments require special technical training and may therefore only be carried out by authorized Bischoff & Bischoff dealers.

1.1. Signs and Symbols



Warning! These are especially safety-relevant instructions. Follow the directions in the manual!



Important! This is especially useful information on a given subject.

2. Important Safety Instructions

2.1. General Safety Instructions

- To avoid falls and dangerous situations, you should first practice driving your new wheelchair on level, unobstructed ground. We recommend having an assistant with you.
- Please make sure that all parts have been properly installed before using the wheelchair.
- Practice driving on level, unobstructed ground before first use. Get a good understanding for the way the wheelchair brakes and accelerates when driving straight ahead or a curve.
- Please note that displacing the center of gravity by shifting the body or by adding loads may increase the risk of tipping over the wheelchair to the side or backwards.
- The wheelchair may not be used for transport of more than one person or any additional load. Make sure to only use it for the intended purpose.
- Never use the wheelchair under the influence of alcohol or other substances that may impair your attention and/or your physical and mental capacity.
- Please make sure to always use ramps to overcome obstacles.
- Avoid hitting obstacles (steps, curbs) at full speed.

- Please pay attention to the tilt prevention feature on steps, lifting platforms and ramps. Make sure there is enough clearance on top, on the bottom and on the sides.
- The control unit must always be switched off when getting in or out of the wheelchair.
- All road traffic regulations must be observed when driving on public roads.
- The rear lights at the wheelchair must always be visible to other road users.
- If possible, wear bright, conspicuous clothing. This will make it easier for other road users to see you.
- Please note that the upholstery will heat up if directly exposed to sunlight and may cause injuries to your skin when touched. You should therefore cover these parts or protect the wheelchair from exposure to direct sunlight.



Please note that operating the wheelchair in push mode by uncoupling the drive mechanism will deactivate the electro-magnetic brakes. The wheelchair should therefore only be used on level ground in this mode. Non-observance may lead to life-threatening situations.

2.2. Advice Regarding EMC Interference

Despite meeting all applicable EMC guidelines and standards it is possible that the wheelchair will experience interference from other electrical devices (e.g. cell phones) or interfere with these. Should you notice such interference, either turn off the other device or your electric wheelchair and move it outside the interference range.

2.3. Brakes

After letting go of the joy-stick, the automatic brakes will slow the wheelchair until it comes to a complete stop.

In push mode, the drive mechanism is decoupled and there is no handbrake. To secure the chair you have to engage the drive again.

2.4. Use on Public Roads

The wheelchair is designed for outdoor use.

Please keep in mind that you are using public roads and therefore have to observe all road traffic regulations.

Do not endanger other road users through inconsiderate driving, especially on walkways.

2.5. Purpose

The Neo XXL electric wheelchair is designed for outdoor use by persons with impaired mobility.

It is therefore sufficiently compact and agile medium distances and overcoming small obstacles outdoors. It is classified under category C according to the EN 12184 standard. The maximum load capacity is 200 kg.

2.6. Indications for Use

Inability or severely impaired ability to walk due to

- paralysis
- loss of limb
- defect/deformity of limb
- joint contracture
- joint damage (not in both arms)
- other diseases

The provision of an electric wheelchair is indicated if the use of a hand-driven wheelchair is no longer possible but the proper operation of an electric drive is possible.

2.7. Contraindication

The provision of an electric wheelchair is unsuitable for persons

- with severe balance disorders
- with impaired or insufficient vision
- with strongly impaired cognitive abilities

2.8. Declaration of Conformity

Bischoff & Bischoff, as manufacturer and solely responsible party, hereby declares that the electric wheelchair Neo XXL complies with the requirements of the EC Directive 93/42.

2.9. Service life

If used as intended, and the safety, care and maintenance instructions are observed, the expected service life is up to 5 years. Beyond this time the electric wheelchair can be used continuously, provided it is in a safe condition.

2.10. Information about range

The range of the electric wheelchair Neo XXL is 40 km. The range that can be achieved by electric wheelchairs depends on the following factors:

- Composition of the carriageway
- way of driving
- Battery condition
- Vehicle load weight
- Ambient temperature

Please note that the range specified by us was determined under test conditions:

- Batteries were new and fully charged
- Ambient temperature of 21 °C
- User weight of 85 kg
- Level, firm surface
- Constant speed
- Deactivated lighting system

3. Description of Product and Contents

3.1. Inspection on Delivery

All B+B products undergo a proper final inspection in our company and are labeled with the CE mark.

The wheelchair is delivered in a special carton. Keep the carton after unpacking, if possible. It is useful for later storage of the product or for sending it back. The Neo XXL wheelchair comes disassembled in its component parts.

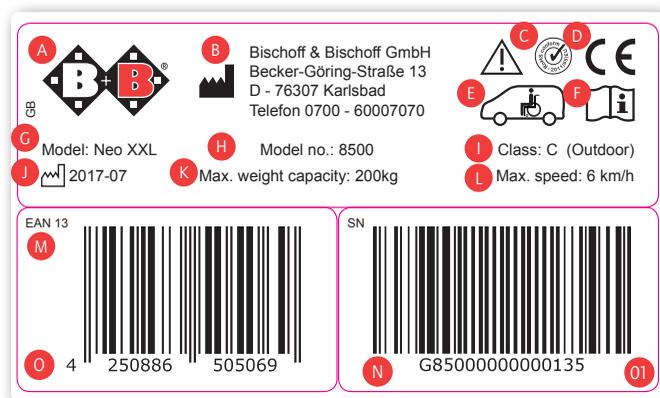
Assembly, adjustment to your body size and first instructions are taken care of by your qualified medical supply dealer.

If the wheelchair is shipped by rail or road, the goods should be checked immediately for transport damages (carton) in the presence of the bearer. Should there be any damage, please contact our customer service (Tel.: +49 700 6000 7070) immediately.

Check the contents for completeness and make sure nothing is damaged. Should you find any irregularities or damage, please contact our customer service (Tel.: +49 700 6000 7070).

3.2.Type plate and serial number

The type plate and serial number are located under the seat.



- | | |
|--|---|
| A Manufacturer logo | B Manufacturer information |
| C RoHS logo | D CE mark |
| E Not suitable for use as a seat in a vehicle | F Important - Adhere to the operating instructions |
| G Model designation | H Model number |
| I Application class | J Date of manufacture |
| K Maximum load capacity | L Maximum speed |
| M Serial number | N Serial number |
| O EAN 13 Artikelnummer | |

3.3.Contents

After receipt of the goods, please check the contents for completeness right away. The contents consist of:

- outer package
- electric wheelchair (ready for use incl. 2 batteries)
- charging unit
- instruction manual

3.4.Summary

Neo XXL product overview (fig 01a):



3.5. Basic Settings

It is necessary to adjust the wheelchair to your body size before first use. This is the only way to ensure a physiologically correct posture allowing for long drives without tiring. Below you find a description of the basic settings of the wheelchair. You should carry out these adjustments with the help of your medical supply dealer. You need a set of 4,5mm and 6 mm Allen keys, a screw driver and ring spanners, 10 and 13 mm.

3.5.1. Leg Supports

Length of lower leg supports

- The lower leg supports can be adjusted from 355 - 425 mm
- To do this, loosen the screw joint and pull the screw out.
- Adjust to the desired height. (Fig. 02).
- Re-insert the screw and tighten the screw joint up again.



Make sure to always use two screws for secure fastening!

Angle of footrest

- Loosen the screw joint on the side of the footrest.
- Set the required angle of the footrest (fig. 03).
- Re-tighten the screw. To fix it in place, use Loctite 243



Knee angle

- The angle of the legrests can be set via a perforated plate.
- Loosen the red locking clip on the inside and pull the pin out.
- Move the legrest into the required position (fig. 04).
- To fix it in place, the pin is re-inserted and secured using the locking clip



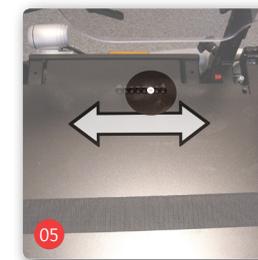
Make sure to set the angle only within the marked range.

3.5.2. Seat

Seat depth

The seat depth can be altered from 420 to 510 mm..

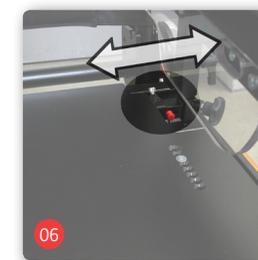
- First remove the seat cushion.
- Loosen the screw joint and move the seat plate into the required position (fig. 05).
- Re-tighten the screws.



Seat width

- The seat width is set by lateral adjustment of the side parts.
- Loosen the screw joint and remove the memory stick.
- Move the side bar into the required position (fig. 06).
- Re-insert the memory stick and tighten the screw joint up again

Make sure that both memory sticks, on the right and left, are located in the same hole position!

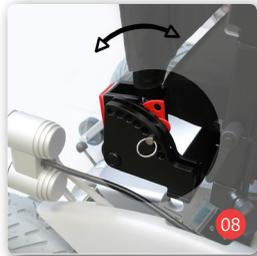




Seat angle

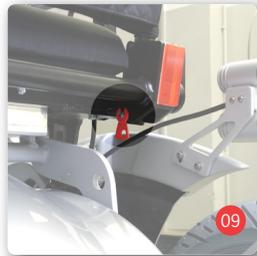
- Release the clamping lever until you can adjust the seat angle. (do not pull out).
- Set the required seat angle (fig. 07).
- Re-tighten the clamping lever.

3.5.3. Backrest



The angle of the backrest of your electric wheelchair can be adjusted very easily and without much exertion.

You also have the option of folding the back completely forwards.



- The backrest angle can be adjusted from 5° forwards to 75° backwards.
- Loosen the red locking clips on the right and left of the perforated sheet and pull the pins out (fig. 08).
- Move the backrest into the required position.
- To fix it in place, the pins are re-inserted and secured using the locking clip.
- To fold the back completely forwards, or to also remove it, loosen the bottom locking clips on the right and left and pull the pins out (fig. 09).
- If you want to refit the backrest, perform the operations in the reverse order.
- To fix it in place, the pins are re-inserted and secured using the locking clip.

3.5.4. Armrests

The armrests can be completely taken off to be able to get in and out of the chair from the side. In addition, the height of the armrests can be adjusted. They can also be adjusted sideways by adjusting the side parts (see side parts).

Removing the armrests

- To remove the armrest, loosen the wing bolt and pull out the armrest to the top (fig. 10).
- When installing the armrest, make sure it is inserted all the way and fastened again.

Adjusting the height

- Loosen the lever screw and pull it out completely.
- Move the armrest into the required position (fig. 11).
- To fix it in place, re-tighten the lever screw.

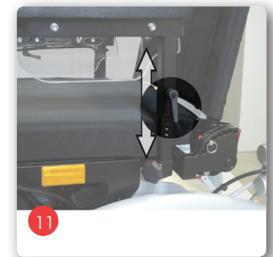
Distance to the backrest

- Loosen the Allen screws and pull them out completely.
- Move the armrest into the required position (fig. 12).
- To fix it in place, re-tighten the Allen screws.

3.5.5. Side parts

You can adjust the side parts along with the armrests vertically and horizontally

- For lateral adjustment, see the section on seat width.
- For height adjustment, see the section on armrests.





3.5.6. Control unit

The control unit can be mounted either on the right or left-hand side underneath the armrest each.

- Loosen the lever screw under the armrest (fig. 13).
- Fit the control unit under the opposite armrest. To do this, re-tighten the lever screw.



Please note that the control unit cables must be re-laid. Get a qualified person to do this.

3.5.7. Seatbelt



The seatbelt is attached to the side of the backrest.

- Adjust the length of the seatbelt by positioning the buckle accordingly (fig. 21).
- Fasten the seatbelt with the latch.
- Open the seatbelt by pushing the red button at the latch.

4. Using the wheelchair

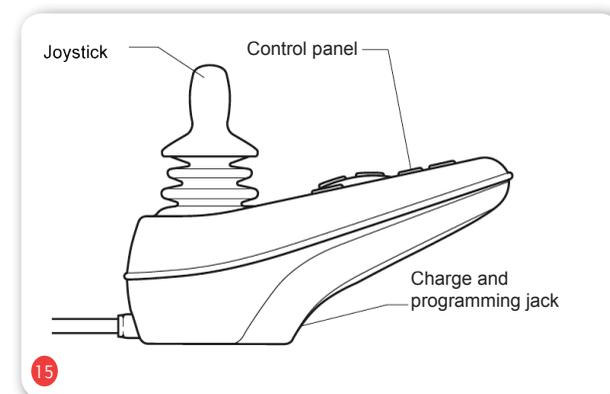
After adjusting the wheelchair to your personal needs, familiarize yourself with the control functions.

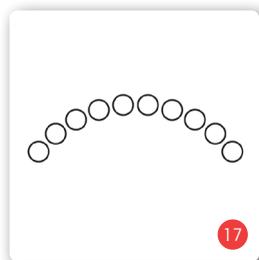
4.1. Description of the control functions

If the wheelchair is ordered without electrical adjustments for backrest, seat tilt and knee angle, the VR-2 controller from PG Drives Technology is fitted. Subsequent retrofitting with electrical adjustment components is possible, but requires adaptation by an authorised service engineer. If the wheelchair is ordered with electrical adjustments for backrest, seat tilt and/or knee angle, the R-net controller from PG Drives Technology is fitted.

The functions of both joystick controllers are described separately below

4.1.1. VR-2 control

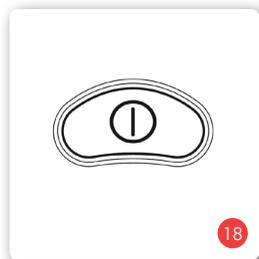




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Battery Status Display

The battery status display shows to what extent the batteries are charged (fig 17). If the indicator is within the green range, you have enough battery power available. If the indicator is within the red range, only short drives are possible and the batteries should be recharged. (See charging procedure)



18

ON/OFF Button

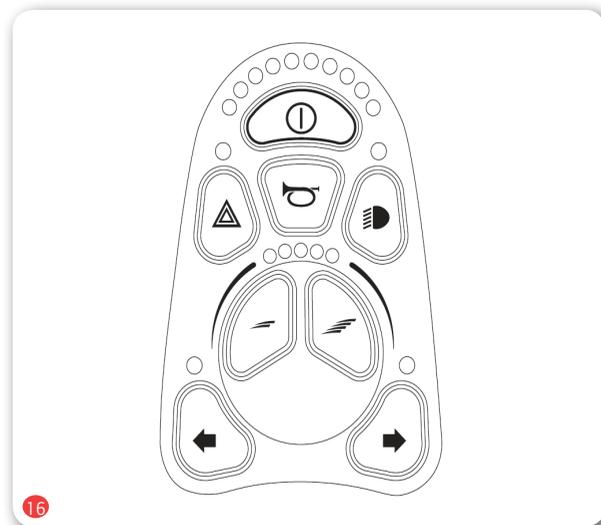
Pushing this button will put your wheelchair into operational mode (fig 18).



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Speed Range Display

The speed range display shows you the pre-selected speed range. You can set the speed between level 1 and 5, with the corresponding number of LEDs lighting up (fig 19). The speed range indirectly tells you the maximum speed possible at full deflection of the joystick, i.e. with level 5 you can reach the maximum speed possible, while level 1 will keep you within the lowest speed range.



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Setting the Speed Range

These buttons (fig 20) allow you to increase (right) or decrease (left) the maximum speed possible. Within each range you control the speed with the joystick.

Light

Use this button to switch on the active lighting system of your wheelchair when darkness falls or when travelling through dark areas such as tunnels. This will make you more visible to other traffic (fig. 21).

Warning indicators

Press this button to switch on the warning indicators in emergency situations, such as inability to move the wheelchair. All four indicator lights will flash and signal other traffic that your wheelchair is disabled (fig. 22).

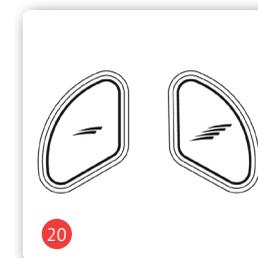
Indicators (left/right)

Use this button (fig. 18) to switch on the left or right indicators of your wheelchair to signal other traffic that you wish to change your direction of travel to the left or right. Press the button again to switch off the indicators.

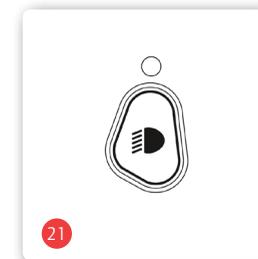
Immobiliser

To protect your wheelchair from unauthorised use or theft store it in a locked room or activate the immobiliser.

- Press and hold the On/Off button until you hear a beep and release it.
- Move the joystick in the direction of travel and then to the neutral position. It will beep in each position. Now the control is locked.
- Switch on the controller with the On/Off button.



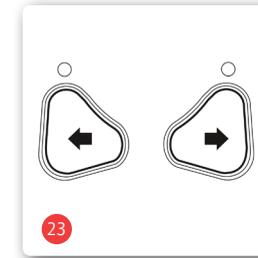
20



21



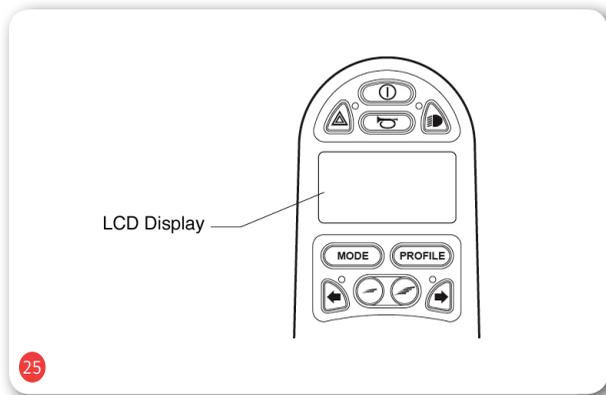
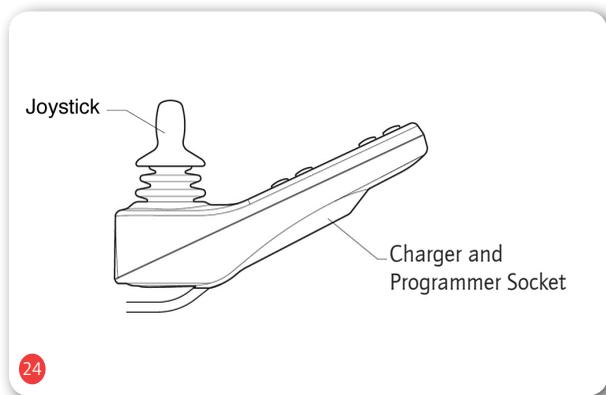
22



23

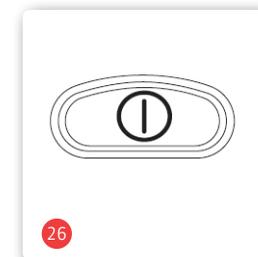
- Move the joystick in the direction of travel and then to the neutral position. It will beep in each position. Now the control is released.

4.1.2. R-net control



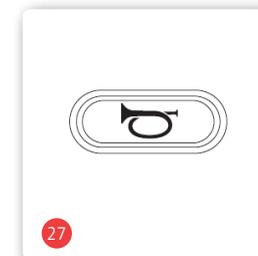
ON/OFF button

Press this button to switch on the wheelchair (fig. 26). The electrical components are then also enabled.



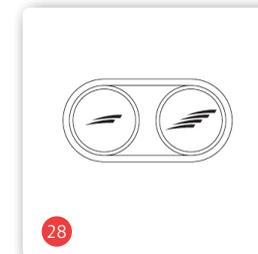
Signal horn

Press this button to sound the horn (fig. 27).



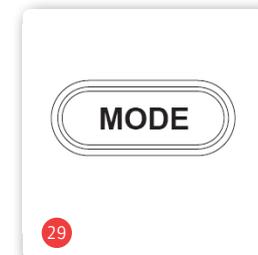
Setting the mode

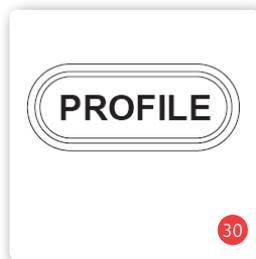
Press these buttons to change the mode, i.e. increase (right) or reduce (left) the maximum available speed. The speed is controlled by movement of the joystick (fig. 28).



Mode

This button allows you to select the available modes (fig. 29). The modes depend on the programming and the electrical components that are also connected.





Profiles

This button allows you to select the available profiles (fig. 30). The profiles depend on the programming and the electrical components that are also connected. The profiles are created together with the authorised service engineer.

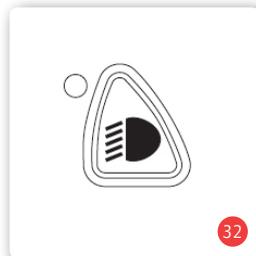
30



Warning indicators

Press this button to switch on the warning indicators in emergency situations, such as inability to move the wheelchair. All four indicator lights will flash and signal other traffic that your wheelchair is disabled (fig.31).

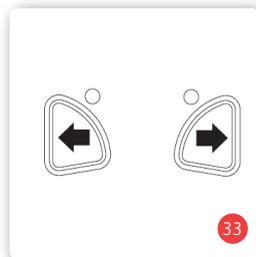
31



Light

Use this button to switch on the active lighting system of your wheelchair when darkness falls or when travelling through dark areas such as tunnels. This will make you more visible to other traffic (fig. 32).

32

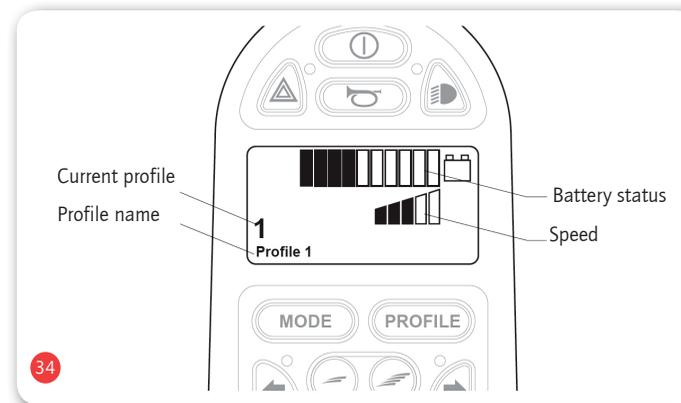


Indicators (left/right)

Use this button (fig. 33) to switch on the left or right indicators of your wheelchair to signal other traffic that you wish to change your direction of travel to the left or right. Press the button again to switch off the indicators.

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4.1.3.LCD and the most important symbols

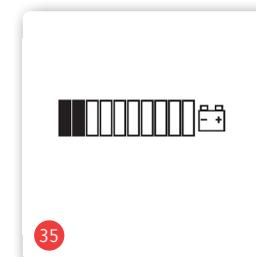


34

Battery status display

The battery status display (fig. 35) shows the charge status.

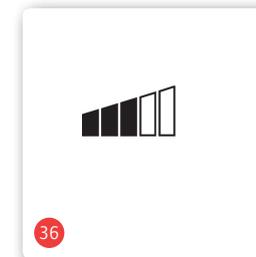
- Continuous display means: the state of charge is sufficient.
- Slow flashing means: all functions are still working properly, but recharging of the battery is recommended.
- Sequential flashing means: the charger is connected and the batteries are being charged.



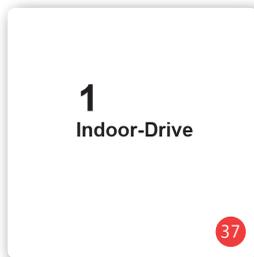
35

Speed

The current speed of the wheelchair is indicated (fig 36)

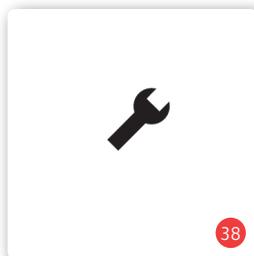


36



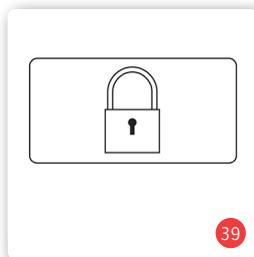
Profiles

The profile number describes which profile the wheelchair is in. The text also describes the current profile (fig. 37).



Error

This symbol appears if the controller has detected an error which does not result in the system shutting down (fig. 38). Find an authorised service engineer in the near future to check the system.



Immobiliser

To protect your wheelchair from unauthorised use or theft store it in a locked room or activate the immobiliser (fig 39).

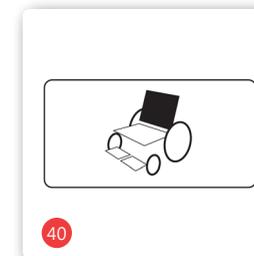
- Press and hold the On/Off button until you hear a beep and release it.
- Move the joystick in the direction of travel and then to the neutral position. It will beep in each position. Now the control is locked.
- Switch on the controller with the On/Off button.
- Move the joystick in the direction of travel and then to the neutral position. It will beep in each position.
- Now the control is released.

4.1.4. Electrical adjustments

The seat position display must be enabled. To do this, press the mode button and then scroll (move joystick left or right) until you have reached the seat position display. You can then select each individual electrical adjustment.

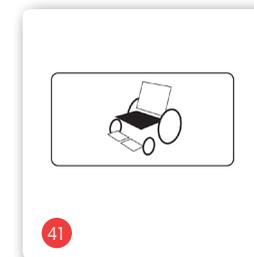
Backrest

The backrest adjustment is now enabled (fig. 40). Move the joystick in the direction of travel, or in the opposite direction, to adjust the angle of the backrest. Scroll to the other adjustments as described above.



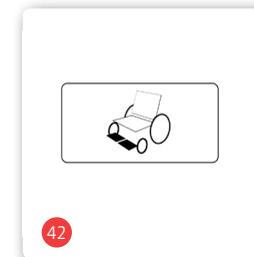
Seat angle

The seat angle adjustment is now enabled (fig. 41). Move the joystick in the direction of travel, or in the opposite direction, to adjust the angle of the seat. Scroll to the other adjustments as described above.



Footrests

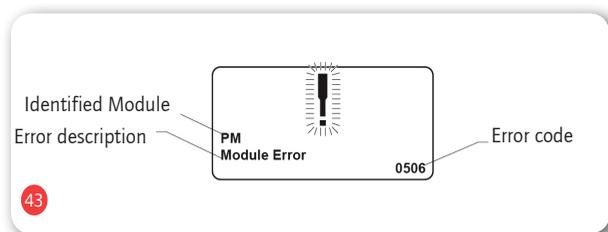
The footrest adjustment is now enabled (fig. 42). Move the joystick in the direction of travel, or in the opposite direction, to adjust the angle of the footrest. Scroll as described above to get to the adjustment of the individual footrests.



4.1.5. Diagnostic Display

If the control unit detects an error in the system while the wheelchair is in use, the diagnostic display automatically appears.

An error code, a short description of the error and the module where the error occurred are then shown in the display.



Identified modules

PM Power Module

JSM Joystick Module

ISM Intelligent Seating/Lighting Modul

Error description

The text gives a short description of the error type.

Error code

The 4-digit code indicates the exact error which has been detected.

Diagnostic Procedure

Proceed as follows:

- Read the error description, identify the module and the exact error code.
- Switch the controller off.
- Check the connections to the modules.
- Check the battery charge level.
- Carry out the action for the error code, as it is described in the service guide (available from your authorised service engineer).

- Switch the wheelchair back on and check it is functioning properly. If the wheelchair does not function in the usual way, switch it off again and contact your service engineer.

4.2. Entering and leaving

Entering and leaving from the side

- Move the wheelchair as close as possible to the present or future seat so they are side by side.
- If you wish to move from another wheelchair or room chair, lock it by setting the parking brakes.
- Lock the Neo to prevent it from moving accidentally by pressing the On/Off button to switch off the control (all displays off).
- Remove the arm rest and side section.
- Fold the foot plates to the side or remove the leg rests.
- Now slide sideways onto the other seat.
- Make sure that you are sitting as far back in the seat as possible.
- Move the arm rest and leg rests to the original position

Entering and leaving from the front

- First fold the foot plates up or remove the leg rests.
- Move the Neo XXL as close as possible to the present or future seat front to front
- If you wish to move from another wheelchair or room chair, lock it by setting the parking brakes.
- Lock the Neo to prevent it from moving accidentally by pressing the On/Off button to switch off the control (all displays off)
- Now slide onto the seat by turning your body around.
- Then move the arm rest and leg rests to the original position

4.3. Driving the wheelchair



Before moving check that the electromagnetic brake is correctly locked. The safest way is to make sure the electrical wheelchair is switched OFF!

Commissioning

- Sit in the seat of your B+B wheelchair and place your legs of the footrests.
- Make sure that you are sitting as far back in the seat as possible
- Make sure that there is no loose clothing such as scarves, shirts etc. is hanging from the wheelchair and could be caught in the wheels
- Make sure that you are comfortably and securely seated.
- Press the On/Off button to switch on the Neo XXL
- All electrical driving functions are now available

Driving functions

- Your dealer can adjust the values for speed, acceleration and deceleration to your requirements subject to the legal regulations.
- For a start select a low mode and increase it while moving if required.
- Use the joystick to start moving. The joystick is used simultaneously to increase the speed and to change the direction of movement. When the joystick is in central position the electro-magnetical brake is active, unless the joystick is not moved the wheelchair stands still.

Moving forward: to move forward in a straight line move the joystick cautiously forward. The further forward the joystick is moved, the faster your wheelchair gets. If you release the joystick the wheelchair will automatically be braked to a stop.

Reversing: to move in reverse mode, move the joystick cautiously back. The further back the joystick is moved, the faster your wheelchair gets. If you release the joystick the wheelchair will automatically be braked to a stop.

Turning corners: to change direction of travel, tilt the joystick to the left or right. This can also be done when the joystick is tilted forwards or backwards, i.e. while driving backwards or forwards.

4.4. Leg supports

To make it as easy as possible to enter and leave your wheelchair, the foot plates can be folded up, or the leg rests can be swung to the side out of the way or removed.

- Open the lock to swing the leg rest to the side (fig 44).
- The leg rest in the swung-out position can be completely removed (fig.45).
- When you want to replace the leg rest, proceed in reverse order.
- Move the leg rest to the forward position until you hear it lock into place.





4.5. Pushing the wheelchair

If you wish to push the wheelchair in some situations, the brakes must be unlocked. The wheelchair is easy to push in freewheel mode (fig 46).

 **Caution!** The electromagnetic brake is disabled in this mode.

- To be able to push the electric wheelchair manually, turn the switch downwards. The switch will be automatically engage.
- To engaged the actuators turn the lever upwards, it will click into place automatically. Also repeat this procedure on the other side.

 For safety reasons the motor drive is locked in free-wheel mode.

 **Caution!** Always use both drives in the same position (accident hazard).

5. Technical data

Dimensions and weights

Max. load capacity	200 kg
Seat width:	400 - 510 mm (via armrest adjustment)
Seat height:	470 - 580 mm (without seat cushion)
Seat depth:	420 - 510 mm
Seat angle:	2° bis 19° (optional electrically)
Seat back height:	440 mm
Seat back angle:	-5° - 75° (optional electrically)
Overall length:	1150 mm (incl. foot rest)
Overall height:	1010 mm
Height of the armrests:	210 - 270 mm zur Sitzfläche
Leg rest length:	350 - 430 mm
Angle of the leg rest:	90° - 108 ° (optional electrically)
Overall width:	690 mm
Unloaded weight:	131 kg (incl. batteries)
Weight of the batteries:	20 kg
Drive wheels:	3 x 8 Zoll / 76 x 203 mm
Steering wheels:	3 x 4 Zoll / 76 x 102 mm
Tyre pressure:	front: 250 kPA / back: 350 kPA

Electrical system

Main fuse:	60 A
Battery:	maintenance-free gel batterie 2 x 12V / 60Ah
Battery charger:	24VDC / 8A IUoU
Motor:	2 x 24V / 250W / 4600RPM
Controller:	VR2 (PG Drives Technology) R-net (PG Drives Technology)
Lights and indicators:	rear lights with separate activation headlights and rear lights according to the German traffic regulations [StVZO]

Driving characteristics

Speed:	6 km/h (forwards) / 4km/h (backwards)
Climbing capacity:	max. 12°
Obstacle height:	max. 50 mm
Range:	40 km
Turning circle:	850 mm
Dynamic stability:	12° (uphill)
Unevenness of the ground:	50 mm
Ground clearance:	70 mm
Steering range:	1240 mm

Ambient conditions

Temperature:	(°C): 0 - 50
Air humidity :	(%): 20 - 80

Lagerbedingungen

Temperature:	(°C): -20 - 60
Air humidity:	(%): 45 - 60

Equipment

Frame:	Aluminum, powder-coated
Pad materials:	flame-resistant, tested according to EN1021-1/2
Seat cushion:	Nylon / foam flame-retardant
Back cushion:	Nylon / foam flame-retardant
Armrest cushion:	PU
Attachments:	Steel powder-coated

Operating forces

Joystick:	< 13,5 N
Buttons on the control panel:	< 5 N
Disconnecting the drive mechanisms	< 60 N

6. Maintenance tips for users**6.1. Cleaning and disinfection**

Make sure that the wheelchair is switched off before starting to clean it.

- The frame sections and panels of the wheelchair can be cleaned with a moist cloth. You can use a mild detergent for more stubborn dirt.
- The wheels can be cleaned with a wet synthetic fiber brush (do not use a wire brush!)
- The seat, seat back and arm rests can be cleaned of dust and minor dirt with a damp cloth. Do not use aggressive cleaning agents, because they may attack the surface of the material. The cushions can be washed with warm water at 40°C and disinfected with a standard disinfectant.
- Please note that electrical and electronic components must not come into contact with water unnecessarily



Caution! Do not use high pressure cleaners or steam cleaners..

6.2. Check before use**6.2.1. Brake check**

Every time you use the wheelchair check the brake system. Move forward slowly and release the joystick. The wheelchair must come to a stop in the normal manner.

When it is at a standstill the electromagnetic brake must lock with an audible click. If you detect unusual brake behaviour, inform your mobility dealer immediately and do not use the wheelchair.

The motor brake operates correctly if you cannot push the wheelchair when it is switched off. However, if it can be moved, the electromagnetic brake is faulty. Do not use the wheelchair if this is the case. Contact your mobility dealer immediately

Checking lights, indicators 6.2.2. and horn

Before moving off in the wheelchair always check the operation of the lighting system, the indicators and horn. If you press the button and there is no response from the equipment, inform your mobility dealer immediately and do not use the wheelchair.

6.2.3. Checking the tyres

Before moving off in the wheelchair always check that the tyres are undamaged and the tyre pressure is adequate. If the pressure is too low, the tyres must be pumped up.

Check the tyre tread depth at least once a month. It should be at least 1 mm. Defective or worn tyres must be replaced by the mobility dealer.

6.3. Batteries

The wheelchair is equipped with maintenance-free gel batteries whose fluid level does not need to be checked.

If you do not use your wheelchair for an extended period, the batteries should be charged every two months, otherwise they may be destroyed by deep discharge. Make a habit of checking the battery status display on the control every time before using your wheelchair.

If the battery status display shows only the red LEDs, do not travel long distances and connect the battery charger to the wheelchair as soon as possible. We recommend charging the battery after every time the wheelchair is used.

6.3.1. Charging

Charging for the first time:

To charge the batteries to their maximum capacity proceed as follows:

- Discharge the factory-charged batteries until the LED display shows two bars.
- Charge the batteries as described below (approx. 16 hours).
- Discharge the batteries again to two bars on the LED indicator.
- Finally charge the batteries as described.



Use only approved battery chargers to charge the batteries (see Technical Data). Follow the instructions for use of the battery charger.

- Before using the battery charger check that the mains connection is 230 V.
- Switch off the wheelchair first
- Connect the battery charger to the wheelchair. The charging jack is on the side under the control (fig. 47).
- Plug the mains plug of the battery charger into the mains socket (230 V).
- The charge indicator of the battery charger (green) shows the status of the charging process (fig. 48)



Yellow: charger is switched on Continuous light: charging is in progress.
 Flashing 10-20 times a minute: recharging.
 Flashing 5 times a minute: batteries recharged.

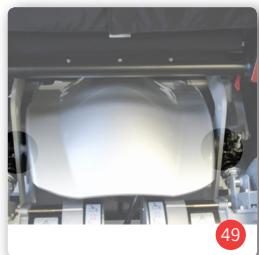
- Once charging is complete, disconnect the mains plug and disconnect the battery charger from the wheelchair.

6.3.2. Replacing batteries

When working on the batteries be very careful, do not use metal tools, do not touch the battery terminals and follow the directions of the battery manufacturer



Caution! This work should only be done by a trained technician. Danger of electrocution!



Use only batteries approved for this wheelchair (see technical data).

Make sure that the wheelchair is switched off before starting to replace batteries.



- Loosen the screw joint on the left and right to do this
- You can now loosen the straps holding the batteries in place.
- Disconnect the battery cables. First the red one, then the black one. Make sure you use insulated tools and that you do not touch frame parts when disconnecting the cabling.
- Carefully lift the batteries out by the handles (fig. 50).
- Lift the new batteries into the space provided and connect the contacts.
- Make sure you observe the correct colour-coding (red and black).
- Secure the batteries with the straps and fix the battery cover in place.



When the batteries have reached the end of their life, i.e. they can no longer be adequately charged, they must not be disposed of with household rubbish. Old batteries are returned to the dealer when new batteries are purchased and correctly disposed of.

7. Maintenance tips for retailers

We recommend having the complete wheelchair inspected by the mobility dealer at least once a year. If faults or defects in the wheelchair are found, it must be returned to the mobility dealer for repair immediately

The dealer can receive the required information, documentation and circuit diagrams for repair and service on request at B+B. A training program is also available for dealers

B+B customer service is available to answer questions at +49 (0)700 6000 7070)

8. Disposal

If the wheelchair is no longer used and you wish to dispose of it, please contact your mobility dealer.



If you wish to dispose of it yourself, please contact a local recycling company for the disposal regulations of your jurisdiction.

9. Use by others

The Neo XXL wheelchair is suitable for continued use by others. Before it is handed on to another user, it should be serviced by a specialist dealer and undergo hygienic treatment. When transferring the wheelchair to another user, please remember to give the new user this instruction manual and the address of your specialist dealer.

10. Maintenance

Our customer service can provide a service schedule for the wheelchair



The wheelchair must be inspected in accordance with the service schedule and must be in good condition..

11. Lifting and holding points

Due to its weight, it is preferable to use ramps for loading the electric wheelchair. If you need to lift the wheelchair nevertheless, only pick it up by the frame (fig. 48) or the holding points (fig. 49 and fig. 50). Do not grip the panel, electronics or other attachment parts. You can secure the electric wheelchair for transport at the front and back of the frame under the seat.

12. Transport

You can determine whether or not your wheelchair is approved for use as a seat in a vehicle for transporting disabled people by referring to the symbols on the CE sticker on the product:

Wheelchair suitable for use as a seat in a vehicle for transporting disabled people (fig. A)

Wheelchair not suitable for use as a seat in a vehicle for transporting disabled people (fig. B)

The wheelchair has also been marked with symbols on the frame which quickly show you and your transport service provider if it is suitable for transport in wheelchair accessible vehicles and where the fastening points are located:

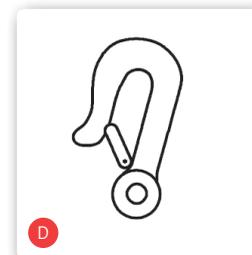
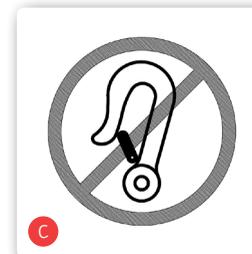
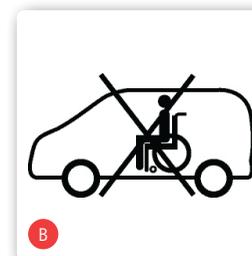
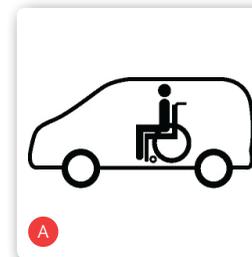
Wheelchair not suitable for use as a seat in a vehicle for transporting disabled people (fig. C)

Fixation points on the restraint system (fig. D)

All products approved by B+B for use as seats in vehicles are tested in accordance with ISO 7176-19. The tests in accordance with ISO 7176-19 were performed using restraint systems from AMF-Brunns. The correct mounting of the restraint system is a prerequisite for the safe transportation of the products in a vehicle for transporting disabled people and the basis for the approval.

The restraint systems from AMF-Brunns provide the ideal points for the provision of restraint force for the purpose of securing the products in the vehicle for transporting disabled people (known by the German term „Kraftknoten“, which is defined in the standard DIN 75078-2). For the purpose of providing restraint in the vehicle for transporting disabled people, the products must only be secured at these specific fixation points („Kraftknoten“ points - fig. D). If possible, use a permanently installed car seat and its belt system. Stow the wheelchair in the luggage space.

The person responsible for the transportation should be familiar with the current regulations for transportation as well as with the method of operating the vehicle for transporting disabled people and the restraint system.



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ISO 9001
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