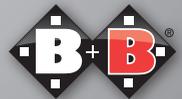


Instruction Manual
Terra/Terra SX



Enjoy mobility.



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1. Introduction

Dear user,

You have decided on a high-quality B+B 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, length of the lower leg, the angle of the seat and the recline of the backrest as well as the swing away function 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 indoor and 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 B+B 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

- In order to avoid tipping and dangerous situations, you should practice safe handling of your new wheelchair on a flat and familiar surface. In such a case, an assisting person is recommended.
- Prior to using the wheelchair, please check whether all parts attached have been fastened properly.
- Never lift the wheelchair by parts that are not fixed firmly (the armrests or legrests).
- Ensure that instantaneous/quick-release axles are positioned correctly in the axle holders, as otherwise there is a danger of injury.
- Please note that the danger of tipping is increased by shifts in weight (e.g. strong upper body movements or overcoming obstacles).
- Steps and larger obstacles may only be crossed with the help of at least two assisting persons. For this, use lifting points 1 and 2 (see overview of the wheelchair). If equipment such as ramps, lifts or step climbing aids are available, these should be used.
- When using on a downward incline, it must be noted that a danger of tipping exists from 12% (7°). It is recommended to use tilt protection.
- Avoid running against obstacles (steps, kerbs) without braking or moving down steps.
- Avoid using on uneven, loose surfaces.
- An assisting person should be used if going over obstacles (steps etc.). Use the tip assist (see overview of wheelchair) to tip the wheelchair appropriately.
- When getting into or out of the wheelchair, apply both locking brakes.
- Ensure a sufficient profile depth of your tyres.
- Observe the road traffic regulations when on the road.
- The passive lighting (reflectors) of your wheelchair must always be visible to other road users.

- The locking brake must not be used for braking when the wheelchair is moving.
- When braking at fast speeds or on long downward slopes when using the push rims, fingers and hand surfaces become hot. Caution! Danger of burning!
- We recommend that leather gloves are used for use outdoors. These increase grip and protect fingers and hands from dirt and injury at the same time.
- Please note that padded parts can become hot in direct sunlight and lead to skin injury on contact. Therefore, cover these parts or protect the wheelchair from direct sunlight.
- When transferring between wheelchair and bed, always ensure that:
 - both locking brakes are applied
 - the side part on the side for getting in/out is swung backwards.
 - the foot plates (for getting in/out) are folded upwards, swing inwards/outwards or are removed.



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 indoor and 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 Terra/Terra SX electric wheelchair is designed for indoor and outdoor use by persons with impaired mobility. It is therefore sufficiently compact and agile for indoor use and also capable of handling medium distances and overcoming small obstacles outdoors. It is classified under category B according to the EN 12184 standard. The maximum weight capacity is 120 kg.

Please note:

We are only able to issue a guarantee if the product is used in accordance with the specified conditions and for the specified purpose.

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. Contraindications

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

B+B as manufacturer and solely responsible party, hereby declares that the electric wheelchair Terra complies with the requirements of the EC Directive 93/42.

3. Product and delivery overview

3.1. Inspection on delivery

All B+B wheelchairs are subjected to a proper final inspection in our house and are provided with the CE mark.

The wheelchair is delivered in a special carton. After unpacking, please keep the cardboard if it is possible. You may need it later for storage or for the return of the wheelchair. The Terra/Terra SX wheelchair comes disassembled in its component parts.

Supply, assembly and instruction of use of the wheelchair are done by a qualified medical supply dealer.

If delivered by rail or a forwarding agent, the product shall be checked at once, with regard to transportation damage at once in the presence of the shipper.

Check the content for completeness and intactness. If there are irregularities and damages do not hesitate to call our customer service (Tel: + 49 (0)700/6000 7070).

3.2. Content of delivery

After receipt of the goods, please check the content for completeness right away. The content consists of:

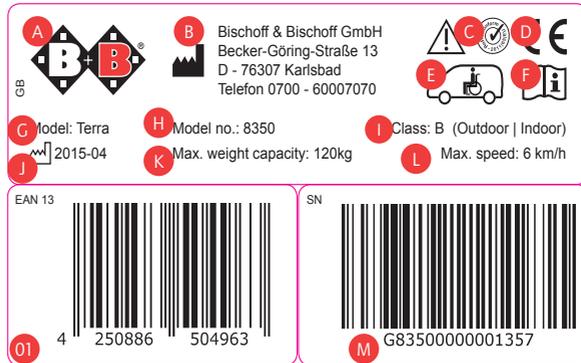
- outer package
- electric wheelchair (ready for use with 2 batteries)
- battery charger
- tools
- instruction manual

3.3. Summary



3.4. Type plate and serial number

The type plate (Fig. 01) 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

3.5. Basic settings

Before using the wheelchair for the first time it must be adjusted for your body size. This is the only way to ensure extended use without fatigue in a physiologically correct posture. The basic adjustments of the wheelchair are described below. You should have all adjustments made by a qualified medical supply dealer.

3.5.1. Leg rests

Length of lower leg rests

- The lower leg rests can be adjusted from 47 to 55 cm.
- To do so, loosen the two Allen screws (SW 4).
- Adjust to the desired height (fig. 02).
- Tighten the screws again.
- Use Loctite 243 to lock screws in place.



! Make sure to always use two screws for secure fastening!

Angle of footrest

- The angle of the footrests is adjustable in 25° steps.
- Loosen the screwing at the side of the footrest.
- Adjust to the desired angle (fig. 03).
- Tighten the screw again.
- Use Loctite 243 to lock screw in place.



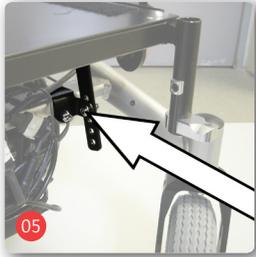
! Make sure to set the angle only within the marked range!

3.5.2. Seat

Seat depth

- The seat depth is initially set to 45cm.
- You may reduce the seat depth to 40cm. Subsequently, you should use an adjusted new seat cushion.
- To adjust the seat depth, loosen the fasteners of the backrest, move the backrest forward and tighten the screws again (fig. 04)





Seat angle

- The initial setting of the seat angle is 1° backward.
- The seat angle can be set from -2° to +10° in steps of 3°.
- Release the front seat fastener (fig. 05).
- Take out the screws and adjust the seat to the desired angle.
- Place the screws into the nearest hole, then tighten them again.



Always be sure to use self-locking nuts to secure the attachment.

3.5.3. Backrest



The angle of the backrest of your electric wheelchair has a manual recline function and can be easily adjusted to the wanted position by pulling the strap at the lower end of the backrest. You also have the option of folding the backrest completely down to the front.

- You can adjust the angle of the backrest from 90° to 120° in four steps.
- Pull the cable behind the back while holding the backrest with the other hand (fig. 06).
- After letting go of the cable the bolts will lock into place.



Make sure that both bolts on the left and right are completely locked in place.

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).

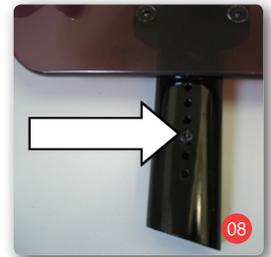
Removing the armrests

- To remove the armrest, loosen the wing bolt and pull out the armrest to the top (fig. 07).
- When installing the armrest, make sure it is inserted all the way and fastened again.



Adjusting the height

- First take the armrest out of the mounting.
- Remove the arresting bolt and screw it back into the armrest at the desired position (fig. 08).
- The lowest hole represents the maximum height of the armrest.



3.5.5. Side parts

You can move the side parts sideways.

- Loosen the fastening screw underneath the seat and move the side part into the desired position (fig. 09).
- Tighten the screw again.



Make sure the fastening is firmly tightened.

3.5.6. Control unit

The control unit can be mounted either on the right or lefthand side underneath the armrest in each case. In addition, the distance can be adapted to the lower arm length.

- Unscrew the toggle screw below the armrest and adjust to the required length (fig. 10).
- Tighten the toggle screw again.





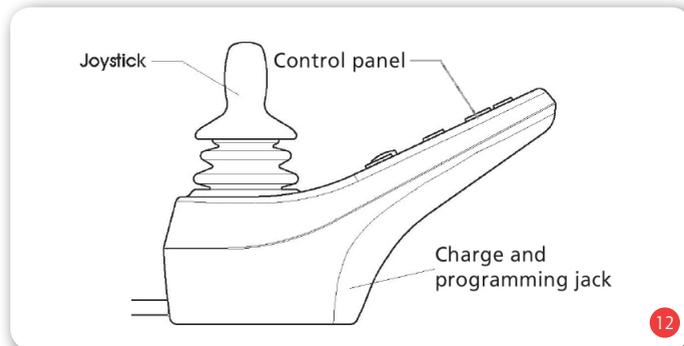
3.5.7. Seatbelt

The seatbelt is attached to the side of the backrest.

- Adjust the length of the seatbelt by positioning the buckle accordingly (fig. 11).
- 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.

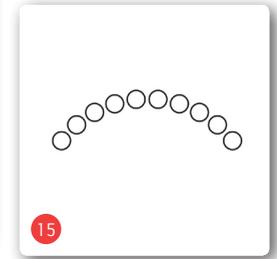
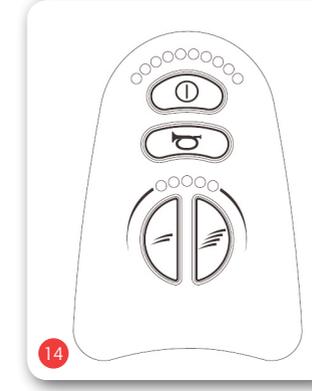
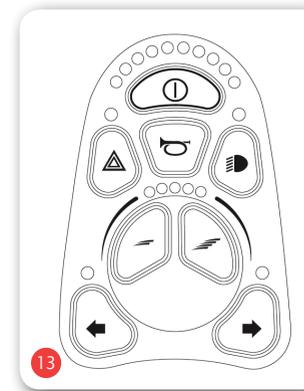


4.1. General functions

4.2. Description of control functions

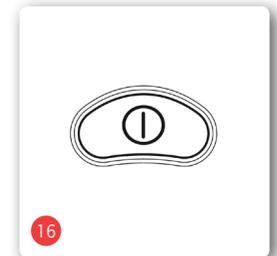
The Terra model with lighting system (fig. 13) is equipped with the VR2 joystick controller with light.

The Terra SX model variant without a lighting system (fig. 14) is equipped with the VR2 joystick controller without light and only supplied for export (outside of Germany).



Battery Status Display (fig. 15)

The battery status display shows to what extent the batteries are charged. 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).



ON/OFF Button (fig. 16)

Pushing this button will put your wheelchair into operational mode.

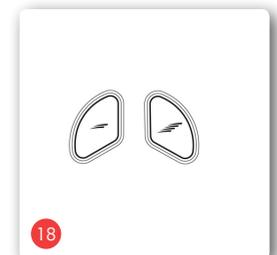
Speed Range Display (fig. 17)

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. 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.



Setting the Speed Range (fig. 18)

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

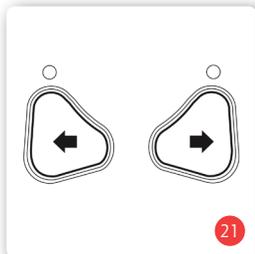


**Lightning, only for Terra****Lights (fig. 19)**

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.

**Warning indicators (fig. 20)**

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.

**Indicators (left/right), (fig. 21)**

Use this button 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.

Immobilizer System

To protect your wheelchair against unauthorized use or theft, park it in a locked room or activate the immobilizer system.

- Push the ON/OFF button until you hear a beep, then let go.
- Move the joystick forwards, then backwards and then back into the neutral position. You will hear a beep each time. Now the control is blocked.
- Activate the control again by pushing the ON/OFF button.
- Move the joystick forwards, then backwards and then back into the neutral position. You will hear a beep each time. Now the control is activated again.

4.3. Getting In and Out**Getting in and out from the side**

- Move the wheelchair as close as possible parallel to the other seat.
- Should you want to transfer from or to another wheelchair or rehabilitation stroller, secure this one first by activating the handbrake.
- Secure the Terra against rolling away unintentionally by pushing the ON/OFF button and thus turning off the control (all displays cleared).
- Take off the armrest/side part.
- Fold the footrests to the side or take off the leg rests.
- Now slide sideways onto the other seat.
- Please make sure you are sitting on the seat as far back as possible.
- Put the armrest and leg rests back into their original position.

Getting in and out from the front

- First fold up the footrests or take off the leg rests.
- Move the Terra as close as possible to the other seat so that they face each other.
- Should you want to transfer from or to another wheelchair or rehabilitation stroller, secure this one first by activating the handbrake.
- Now slide to the other seat by twisting your body.
- Finally, put the leg rests back into their original position.

4.4. Driving the Wheelchair

Startup

- Sit down in your B+B wheelchair and rest your legs on the footrests.
- Make sure you are sitting on the seat as far back as possible. Also make sure that no loose items of clothing such as scarves, shirts and the like are hanging from the side of the wheelchair, since they could be caught in the wheels!
- Make sure you are sitting comfortably and securely. By pushing the ON/OFF button the Terra/Terra SX is put into operational mode.
- You can now use all electrical drive control functions.

Drive Control Functions

Your qualified medical supply dealer can set the values for speed, acceleration and delay within the scope of statutory specifications. Select a low speed range at first and then increase it during your drive, if necessary.

You can start driving by pushing the joy-stick forward. With the joystick you can also increase the speed and control the direction of travel. Putting the joystick in the neutral position will engage the brakes and secure the wheelchair against rolling away.

Driving straight ahead: To drive straight ahead, carefully push the joystick forward. The further you push the joystick forward, the faster the wheelchair will go. If you let go of the joystick you will automatically slow down.

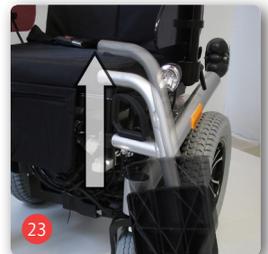
Driving backwards: To drive backwards, carefully pull back on the joystick. The further you pull back on it, the faster your wheelchair will go. If you let go of the joystick, you will automatically slow down.

Turning: To change direction, push the joystick to the left or right. This is also possible when the joystick is in a forward or backward position, that is when you are going forwards or backwards.

4.5. Leg rests

To make it as easy as possible to get in and out of your wheelchair, you can fold the footrests up or pull the leg rests to the side and/or take them out.

- Open the locking mechanism to pull the leg rest to the side (fig. 22)
- In the "outside position" the leg rest can be taken off completely (fig. 23).
- To reinstall the leg rest, repeat the steps in reverse order.
- Push the leg rest back to the front until it catches with an audible click.



4.6. Pushing the wheelchair

If you want to push the wheelchair in certain situations, the brakes have to be disengaged. In the free-wheeling mode the wheelchair is easy to push.



Warning! The electro-mechanical brakes then don't work.

- Move the release lever up into the "Free Wheel" position (right and left).
- A small jolt will let you know that the drive is now disengaged (fig. 24).
- To re-engage the drive, push the lever back into the "Drive" position. It will lock automatically.



For safety reasons the motor drive is locked in freewheel mode.



Warning! Risk to Life!
The drives may only be disengaged on level ground.



5. Technical Data

Dimensions and Weights

| | |
|---------------------|-----------------------------|
| Max. Weight: | 120 kg |
| Seat width: | 41 – 50 cm |
| Seat height: | 54 cm |
| Depth of seat: | 40 – 45 cm |
| Seat angle: | -2° – +10° |
| Height of backrest: | 55 cm |
| Backrest angle: | 90°, 100°, 110°, 120° |
| Overall length: | 106 cm including footrests |
| Total width: | 60,5 cm |
| Empty weight: | 88,3 kg including batteries |

Tires

| | |
|---------------|---------------------|
| Drive Wheels: | 3.00-8 mm (PU) |
| Castors: | 2,80/2,50-4 mm (PU) |

Electrical System

| | |
|-----------------------|--|
| Main fuse: | 50 A |
| Batteries: | 2 x 12V / 50 Ah |
| Charging Unit: | 24VDC / 4A (HP8204B) |
| Motor: | 2 x 450 W |
| Controller: | PG Drives VR2 mit Licht (Terra) PG Drives VR2 ohne Licht (Terra SX) |
| Light and indicators: | according to the German traffic regulations [StVZO] (Terra) |

Driving Specifications

| | |
|------------------------|--------|
| Max. safe angle: | 6° |
| Speed: | 6 km/h |
| Max. incline: | 8° |
| Max. ground clearance: | 125 mm |
| Max. obstacle height: | 50 mm |
| Range: | 32 km |
| Turn radius: | 120 cm |

Fittings

| | |
|--------|--|
| Frame: | powder-coated aluminum frame |
| Brake: | automatic braking system according to the German traffic regulations [StVZO] |

Operating forces

| | |
|----------------------------|-------------|
| Joystick: | approx. 1 N |
| Buttons on the controller: | approx. 1 N |
| Disconnecting the drives: | > 60 N |

6. Maintenance tips for the user

6.1. Cleaning and Disinfection

Make sure the wheelchair is turned off before starting to clean.

- The frame and the paneling 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!)
- You can remove dust and small stains from your seat, backrest and armrests with a moist cloth. Do not use any aggressive cleaning agents, since they could disintegrate the surface of the fabric. The upholstery can be washed in 40°C water and disinfected with a commercially available disinfectant.
- Make sure that the electric and electronic components do 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 mechanical brake must lock with an audible click. If you detect unusual brake behaviour, inform your qualified medical supply 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 qualified medical supply dealer immediately.

6.2.2. Checking lights, indicators 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 qualified medical supply dealer immediately and do not use the wheelchair.

6.2.3. Checking the tyres

Prior to each use, please check the sound condition of the tyres.

Regularly check the profile depth of the tyres once a month. The profile depth should measure at least 1 mm.

Defective or worn tyres must be replaced by your qualified 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.



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.
- Plug the mains plug of the battery charger into the mains socket (230 V), (fig. 25).
- The charge indicator (green) of the battery charger shows the status of the charging process (fig. 26).



- Red – battery charger is switched on
 - Yellow – charging
 - Green : charging is complete (batteries charged)
- 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).

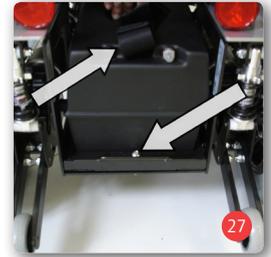
Make sure that the wheelchair is switched off before starting to replace batteries.

- First remove the battery cover.
- Loosen the screws on the right and left. (Abb. 27).
- Now the belts that hold the battery can be released.
- Disconnect the battery cable. First the red terminal and then the black terminal. Make sure you use insulated tools and do not contact metal frame parts while disconnecting the cables.

- Lift the batteries carefully out by the handles.
- Install the new batteries in their correct position and connect the terminals. Note the correct colour-coding (red and black).
- Push the battery compartment back into the original position, mount the slide-in module and fasten the battery cover by means of the Velcro strap.(fig. 28).



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 wheelchair inspected by your qualified mobility dealer at least once a year. If faults or defects at the wheelchair are found, it must be returned to the dealer for repair immediately. The dealer can receive the required information, documentation and circuit diagrams for repair and service on request. A training program is also available for dealers.

B+B customer service is available at +49 (0)700/60007070.

8. Disposal

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



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

9. Transferring the wheelchair

When the wheelchair is transferred to a new owner, please include all the technical documentation with it for the new user.

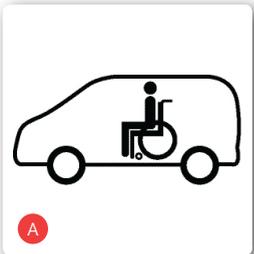


The wheelchair must be inspected in accordance with the service schedule and must be in good condition.

10. Maintenance

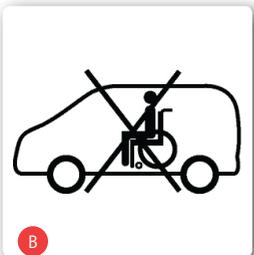
Our customer service can provide a service schedule for the wheelchair.

11. 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 (see fig. A)**
- **Wheelchair not suitable for use as a seat in a vehicle for transporting disabled people (see fig. B)**



The wheelchair has also been marked with symbols on the frame which quickly show you and your transport service 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 (see fig. C)**
- **Fixation points on the restraint system (see 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-Bruns. 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-Bruns 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 (see fig. D), the products must only be secured at these specific points („Kraftknoten“ points).

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. Anchored 4-point restraint systems must be used to secure the wheelchair in the vehicle. If you have any queries about securing your product in a vehicle for transporting disabled people, please contact the B+B customer service on +49 (0)700/60007070.



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