

Otto Bock®

QUALITY FOR LIFE



## A 200

Ⓓ	Bedienungsanleitung.....	3
ⒼⒷ <sup>USA</sup>	Instructions for Use.....	21





# Instructions for Use

Contents	Page
<b>1 Preface</b> .....	<b>22</b>
<b>2 Field of Application</b> .....	<b>22</b>
<b>3 Liability</b> .....	<b>22</b>
<b>4 CE Conformity</b> .....	<b>22</b>
<b>5 Service</b> .....	<b>22</b>
<b>6 Safety Instructions</b> .....	<b>23</b>
<b>7 Transport and Storage</b> .....	<b>24</b>
7.1 Transport in a Motor Vehicle .....	24
7.2 Disassembling the A200 Power Wheelchair .....	24
<b>8 Adjustment Possibilities</b> .....	<b>26</b>
8.1 Back .....	26
8.2 Seat Angle Adjustment .....	27
8.3 Armrest .....	27
8.4 Control Panel .....	27
8.4.1 Removing the Control Panel .....	27
8.4.2 Adaptation to the Arm Length .....	27
8.5 Footrest .....	28
<b>9 Getting Into and Out of the Wheelchair</b> .....	<b>28</b>
9.1 From the Side .....	28
9.2 From the Front .....	28
<b>10 Putting into Operation</b> .....	<b>29</b>
10.1 Switching On .....	29
10.2 Drive Function .....	29
10.3 Brake Release .....	30
10.4 Horn .....	30
10.5 Drive-away Lock .....	30
10.6 Battery Indicator .....	30
10.7 Charging .....	31
10.8 Batteries .....	32
10.9 Fuse .....	33
<b>11 Status and Error Analysis</b> .....	<b>33</b>
<b>12 A200 Standard Version</b> .....	<b>34</b>
<b>13 Options</b> .....	<b>34</b>
13.1 Control Panel .....	34
13.1.1 Control Panel, swing-away .....	34
13.2 Pelvic Belt .....	34
13.3 Other Options .....	34
<b>14 Maintenance and Cleaning</b> .....	<b>34</b>
14.1 Maintenance .....	34
14.2 Cleaning .....	35
<b>15 Disposal</b> .....	<b>35</b>
<b>16 Technical Data of the A200</b> .....	<b>36</b>
<b>17 Technical Data of the Battery Charger</b> .....	<b>37</b>

## 1 Preface

The "A200" Power Wheelchair is a quality product offering versatile use in everyday life. The following special features are the characteristic of the "A200":

- Compact design
- Easy to disassemble for transport
- Easy servicing due to modular component group concept
- Easy access to all component groups

Before using the power wheelchair, please read these Instructions for Use and especially the Safety Instructions in section 5 thoroughly.

The design, as described in these Instructions for Use, is subject to technical alterations without notice.

## 2 Field of Application

The "A200" Power Wheelchair is designed solely for people who are unable to walk or who have a walking impediment for control by the patient themselves. The "A200" was specially designed for individuals, who are able to independently move in a power wheelchair.

The "A200" is a power wheelchair for indoor use according to category A of EN 12184 standard. With regard to the climate and splash-proof test the A200 also fulfills the requirements for outdoor use.

Thanks to its quick and easy adjustment possibilities for standard fittings and the modular design the "A200" can be used by patients with walking impediments/inability due to:

- Palsies
- Paralysis
- Loss of limbs
- Defective / deformed limbs
- Joint contractures / defects
- Other diseases

Fitting Considerations:

- Body height and weight (maximal load is 100 kg)
- Physical and psychological limitations
- Age of the user
- Home conditions and environment

## 3 Liability

The manufacturer's warranty applies only if the device has been used under the conditions and for the purposes described. The manufacturer recommends that the device be used and maintained according to the instructions for use.

The manufacturer is not responsible for damages caused by components and spare parts not approved by the manufacturer. Repairs must be carried out exclusively by authorised dealers or by the manufacturer.

## 4 CE Conformity

This device meets the requirements of the 93/42/EEC guidelines for medical devices. This device has been classified as a class I device according to the classification criteria outlined in appendix IX of the guidelines. The declaration of conformity was therefore created by Otto Bock with sole responsibility according to appendix VII of the guidelines.

## 5 Service



Service and repairs on the A200 may only be carried out by authorised dealers.

Should any problems arise, please contact your wheelchair supplier.

Your authorised Otto Bock dealer:

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**Note:**

Please ensure your A200 power wheelchair is checked and serviced at least ONCE a year by an authorised dealer!

## 6 Safety Instructions



To avoid potentially dangerous situations such as tipping, you must become familiar with the power wheelchair on level ground first.



When getting into or out of the power wheelchair, the wheelchair control must be switched off.



Do not use the footplates when getting into or out of the power wheelchair.



Get to know with assistance from another person how the power wheelchair reacts when the center of gravity is shifted, i.e. when driving on slopes or inclines or clearing obstacles like steps and curbs.



Caution! When using the wheelchair on inclined surfaces ensure the automatic brakes are operating correctly.



Use your wheelchair properly. For instance, do not drive against obstacles (including steps, curbs or doors) without braking first. The critical obstacle height is 4 cm. Therefore, driving over steps or curbs higher than 4 cm should not be attempted!



Be especially careful with any naked flames and cigarettes, as the back upholstery and seat cushion could catch fire.



The maximum load for the A200 is 100 kg.



The driving characteristics of the A200 can be influenced by electromagnetic fields as emitted by mobile phones or other radiating devices. For this reason, all mobile devices must be switched off when driving.



It is also possible that the A200 itself generates electromagnetic fields that might cause interference in other devices. Therefore, the control is to be switched off whenever you don't need it.



Ensure the tyres are in good order and condition and check that they are inflated to the correct tyre pressure (printed on the sidewall of the tyre).



The A200 may be used within a temperature range from -25°C to +50°C.



The A200 is not suited for driving on very slippery (such as icy) surfaces or on very coarse-grained ground such as gravel, pebbles, shingle or scree.



The A200 has been approved for driving on inclines and slopes of up to 12%.



When lifting platforms, ensure the anti-tipper does not become entangled with anything.



When using the wheelchair on lifting platforms or elevators the wheelchair control must be switched off. The brake must not be released.



During battery charging, the control must be switched off.



For safety reasons, a pelvic belt can be attached, which is optionally available.



Never use a water hose or high-pressure cleaning apparatus for cleaning the wheelchair.



Be careful with your fingers during adjustment and assembly works (risk of injuries).

## 7 Transport and Storage

The A200 can be transported both as power wheelchair ready to start or in disassembled condition.

### 7.1 Transport in a Motor Vehicle

During transport the wheelchair must be fully secured by means of tension straps. The frame of the A200 has four fixing eyelets for the attachment of straps. The temperature during transport and storage must be between -25°C and +50°C. The wheelchair control must be switched off and the brake engaged during transport.

We recommend wherever and whenever possible, wheelchair users transfer to the seats installed in the motor vehicle and use the corresponding vehicle restraint systems, because this is the only way to ensure optimal protection of the passengers in case of an accident. For the time being, Otto Bock has not yet released the A200 Power Wheelchair for use as a seat for transportation in motor vehicles; the release is currently being prepared, however. You can receive information on the current state of our measures from your authorized dealer or on the Otto Bock homepage [www.ottobock.com](http://www.ottobock.com).

### 7.2 Disassembling the A200 Power Wheelchair

To reduce the folding size for transport of the power wheelchair, it can be easily disassembled.

Please observe the following order for disassembly:

1. Remove the footrests.
2. Loosen the control panel mounting screw, remove the control panel to the rear and deposit it beside the wheelchair.
3. Remove the side panels.
4. Fold the backrest down to the front (Fig. 1).



Figure 1

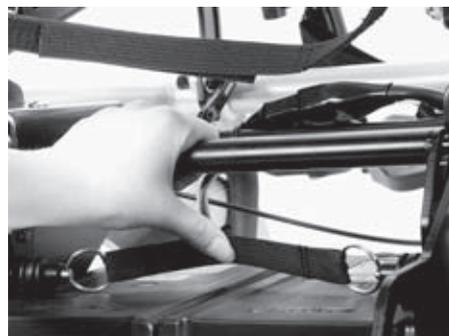


Figure 2

5. Release the seat lock by simultaneously pulling the release strap and folding the locking bar to the rear (Fig. 2).
6. Remove the battery packs by releasing the Lock Lever (Fig. 6).
7. Separate the frame from the drive unit assembly.  
Place your weight on the mounting of the anti-tipper above the wheels so the wheels touch the ground (Fig. 3). Next, separate the frame from the drive unit assembly by slightly lifting the frame and pulling it to the rear (Fig. 4).
8. Fold the seat base onto the frame.  
To do this loosen the two quick release levers of the anterior seat brackets and fold the seat base down whilst simultaneously lifting the brackets slightly and pushing them to the rear (Fig. 5).



**Figure 3**



**Figure 4**



**Figure 5**

To reduce the space needed, the two battery packs can be replaced into the drive unit assembly. To prevent the battery packs from falling out of the drive unit assembly, the locking lever must be relocated (Fig. 6). The control panel can either be laid onto the battery packs or put into the holder provided for this purpose. Ensure the control panel remains switched off and that no cables are pinched (Fig. 6).



**Figure 6**



**Figure 7**

For re-assembly of the A200 power wheelchair the steps described above must be carried out in reverse order.

## Delivery

Upon delivery by the dealer the A200 is ready for use. All settings have been made in accordance with the indications on the order form or are made directly on site by the dealer. Thus, the A200 is adapted to the personal requirements of the individual.

Before using the wheelchair, all components of the standard equipment must be checked for completeness. (Fig. 8).

1. Backrest
2. Armrest
3. Joystick & control unit
4. Seat cushion
5. Footrest
6. Motor with brake release and rear wheel
7. Anti-tippers



**Figure 8**

The functions of the individual components must be checked according to the instructions in sections "Disassembling the A200 Power Wheelchair", "Adjustment Possibilities", and "Putting into Operation". Should any problems arise please refer to section "Status and Error Analysis". The tool kit, which is optionally available, contains one set of Allen wrenches, sizes 3 mm, 4 mm, 5 mm, and 6 mm, and one open-end 13 mm spanner.

## 8 Adjustment Possibilities

The seat height and seat position of the A200 may only be adjusted or changed by the dealer.

All other settings such as: seat and back angle, armrest height and lower leg length, as well as the removal of the footrests and armrest can be done by the user with the tool kit, which is optionally available.

Disassembly of the A200 power wheelchair can be easily done by an attendant. (Refer to section 6: Transport and Storage)

### 8.1 Back

The back can be adjusted to four different angle positions by pulling the release strap which is located at the base of the back. Once the back is in the desired position, release the strap to engage the locks.



**Figure 9**

## 8.2 Seat Angle Adjustment

The A200 offers seat angle settings in 3 different positions (0°, 3° and 6°). For setting the position, 2 quick release levers are used which are located at the front below the seat. To change the seat angle, loosen the two quick release levers. Adjust the desired seat angle by simultaneously lifting the seat slightly and pushing the brackets to the rear. Ensure that the brackets completely engage in the new position and tighten the quick release levers.



**Note:**

Ensure the quick release levers are snugly tightened after all seat angle adjustments!



**Note:**

During seat angle adjustments the user must not sit in the wheelchair.

## 8.3 Armrest

Remove the armrests by loosening the thumb screws at the lower end of the armrest and lifting the armrest upwards (Fig. 10).

Both armrests can be removed, however, only the side without the control panel can be removed directly. Before removing the armrest on the side with control panel, the control panel must be removed (Fig. 11).



**Figure 10**



**Figure 11**

The armrest height can be changed by loosening the set screw at the upper end of the armrest holder. Ensure the set screw is retightened after making any adjustments.

## 8.4 Control Panel

### 8.4.1 Removing the Control Panel

The control panel can be removed by pulling it to the front.

### 8.4.2 Adaptation to the Arm Length

After loosening the attachment screws on the underside of the armrest, the control panel mounting can be adjusted

to the front or to the rear and thus adapted to the desired arm length (Fig. 12). Ensure all attachment screws are fully tightly after adjustment.



**Figure 12**

## 8.5 Footrest



Figure 13



Figure 14

To remove the footrest, the calf band must be unhooked first. Now it is easy to release the footrest lock and then swing away the footrest either inwards or outwards as shown in figure 13. When in this position, the footrest can be pulled upwards and removed.



**Note:**

Take care not to get your fingers jammed when swinging the footrest away or back in place (Fig. 13).

For remounting, first relocate the footrest in the inner position and swing it back into position so the lock engages. Finally, reattach the calf band to the holding device.

By loosening the screw at the rear of the hanger, the footrest height can be adjusted to suit the lower leg length and compensate for the seat cushion height the user uses.



**Note:**

Ensure all screws are firmly retightened after making any adjustments.

## 9 Getting Into and Out of the Wheelchair

Thanks to the modular design of the A200, it is easy to get into and out of the wheelchair. The armrests and footrests can be removed easily and thus allow easy access for transfer from the side or from the front.

### 9.1 From the Side

Move the A200 power wheelchair as close as possible to the seat. Remove the armrest on the side where the user will get into the wheelchair (Fig. 10). The footrest can also be removed if necessary (Fig. 13). Now the user can slide onto the wheelchair's seat. Use of a transfer board will make transfer easier.

### 9.2 From the Front

After flipping up the two footplates, the user can get into and out of the wheelchair from the front (Fig. 15).



Figure 15

If necessary the footrests can also be removed completely (see section 7.5).

With the assistance of an attendant or by means of a transfer lifter, the user can get into or out of the wheelchair from the front. Use of a rotation plate is also possible.

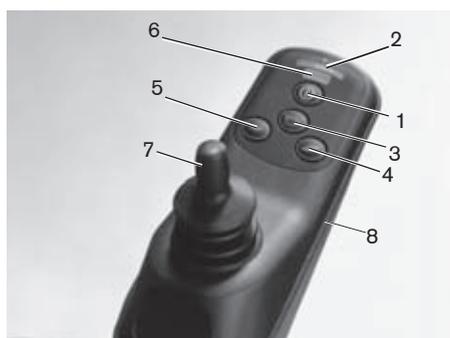
## 10 Putting into Operation

The wheelchair control can be adapted to your personal requirements. Please contact your trained dealer who will carry out the programming.

Prior to putting into operation, the battery cable must be plugged into the contact strip.

### 10.1 Switching On

Press button 1 to switch on the wheelchair control. The indicator 2 shows the remaining battery capacity. The indicator 6 will show 1-5 lit LEDs depending on the selected speed level. When the speed level indicator flashes or the LEDs continually light up one after another, this means a system error has occurred. When the control unit is not used for 10 minutes, the wheelchair is switched off automatically. The control can be switched off at any time; if this occurs whilst driving the wheelchair will be braked immediately.



**Figure: Control panel**

Item	Description
1	On/Off button
2	Battery indicator
3	Horn
4	Increase speed level
5	Reduce speed level
6	Indicator for speed level and system errors
7	Joystick
8	Charging receptacle (on the underside of the control panel holder)

### 10.2 Drive Function

When switching on the wheelchair, it will be set at the speed level that was last used prior to switching the system off. Button 4 is used to increase the speed level and button 5 to reduce it. For driving use the joystick (7). The further the joystick is moved away from the mid-position, the faster the A200 will drive in this direction. The maximum speed with full deflection of the joystick is dependent on the selected speed level. The characteristics for speed, acceleration and deceleration can be adapted by the trained dealer to meet the individual user's requirements.

As soon as the joystick is released, the wheelchair is braked automatically until it stops moving. When standing still, the mechanical brakes are automatically active so the A200 cannot move.

For safety reasons when there is nobody sitting in the wheelchair or the driving function is not required, the wheelchair control should be switched off, to prevent uncontrolled driving through accidental joystick manipulation.

### 10.3 Brake Release

In case of failure of the control unit or insufficient battery capacity, it is possible to push the A200. To do this, the brake must be released using the mechanical release mechanism.



**Figure 16**

The control will recognise that the brake has been released and automatically deactivate the driving function.



**Note:**

After locking the brake release lever into the pushing position, all brake systems are switched off.

To reactivate the driving function switch off and then switch on again the wheelchair control.

### 10.4 Horn

As long as button 3 is being pressed, the horn will sound.

### 10.5 Drive-away Lock

The control unit of the A200 features an electronic drive-away lock. For engaging this function please proceed as follows:

- 1) With the control unit switched on press and hold the On/Off switch.
- 2) As soon as you hear a "beeping sound" (approx. 1 sec.) release the On/Off switch.
- 3) Move the joystick to the front until a "beeping sound" is heard.
- 4) Move the joystick to the rear until a further "beeping sound" is heard.
- 5) A long "beep" sounds to confirm that the driving function is now blocked; the wheelchair control is switched off automatically.

For reactivating the driving function please proceed as follows:

- 1) After switching on, the battery capacity indicator is dark and in the speed level indicator the LEDs continually light up one after another.
- 2) Move the joystick to the front until a "beeping sound" is heard.
- 3) Move the joystick to the rear until a further "beeping sound" is heard.
- 4) A long "beep" sounds to confirm unblocking of the driving function; the battery capacity indicator is lit.

### 10.6 Battery Indicator

The battery indicator displays different functions:

- Readiness for operation of the control unit
- Remaining battery capacity
- Status and error messages

When in driving mode, the indicator is lit on a steady basis and shows the remaining battery capacity. The indicator consists of 10 LEDs, each LED representing approximately 10 % of the total capacity.

This results in the following information regarding "correct" use of the battery indicator:

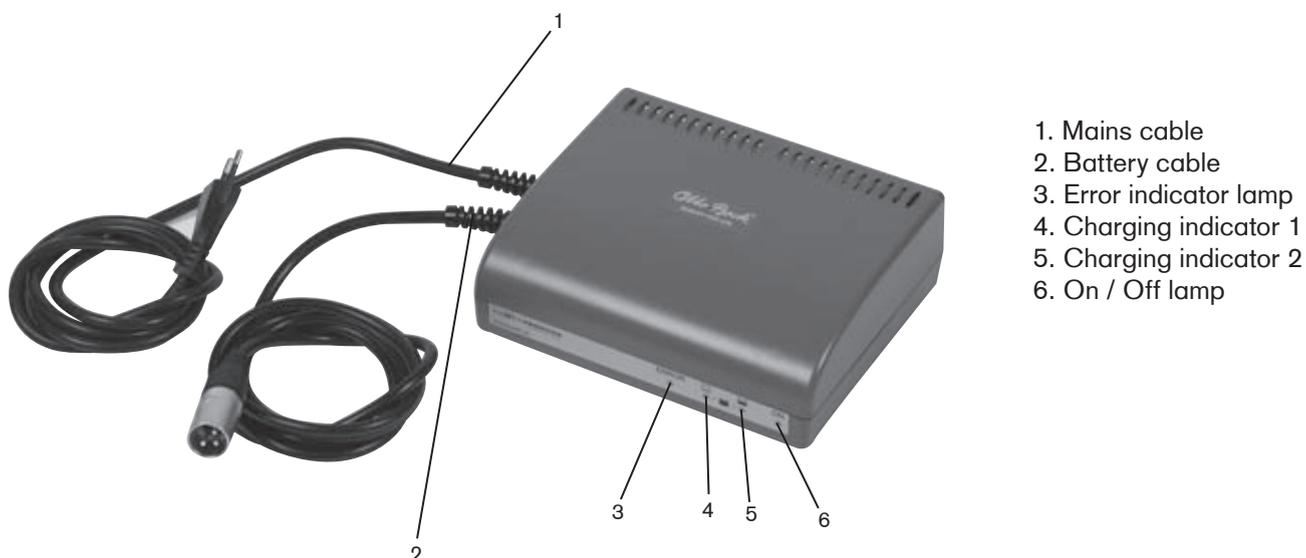
- |   |   |
|---|---|
|  | • Batteries are charged                 |
|  | • Charge the batteries if possible      |
|  | • Battery charging is urgently required |

**Figure: Battery indicator**

Immediately after switching on, the LEDs show the battery capacity status saved before the wheelchair was switched off the last time. The exact state of the remaining capacity will be displayed after driving for a short moment.

### 10.7 Charging

The remaining battery capacity determines the distance range of the A200, and many factors have an influence on the batteries' capacity. Besides the temperature, the age of the batteries and the time and extent of driving, the way you charge the batteries has considerable effects on the capacity and thus on the distance range. Driving over a longer period of time with only the red LEDs of the battery indicator lit will result in battery discharge and thus battery damage. In addition, there is the risk that the A200 may stop due to zero battery capacity and thus bring the user into a dangerous situation. When the wheelchair is used on a daily basis, it is sufficient to charge the batteries when the orange and red LEDs are lit. If the A200 is not used for a longer period of time, a charging cycle should be carried out once a week to maintain the batteries' capacity.



Connect the charging plug to the A200 control panel. Then plug the charger into the mains and switch on the charger. First charging indicator 1 is lit to confirm that the charging process is active. Next, charging indicator 2 lights up to indicate that the battery is charged to approx. 80 %. Finally, both charging indicators, 1 and 2, are lit to indicate that the battery is fully charged. Switch of the charger at the mains, then remove the charger plug from the control panel.

## Troubleshooting

ON lamp	Charging indicator 1	Charging indicator 2	Error indicator lamp	Error
ON	OFF	OFF	OFF	1
ON	OFF	OFF	ON	2
OFF	OFF	OFF	OFF	3

### Error/cause

1) Battery connection is missing:  
The battery is unconnected, the battery terminals/plug are/is dirty, or the connection to the battery cables is interrupted.

2) Wrong pole connection of the battery, programme error and/or battery fault.

3) The battery charger is not connected to the mains supply.

### Solution

1) Check plug, cables and possibly the fuse in the battery cables.

2) Please contact your dealer.

3) Check the mains cable and socket.

If the above mentioned measures do not eliminate the error, or if a cable must be changed, please contact a dealer near you.



#### Important!

The battery charger may be opened only by authorised personnel.



#### Note:

- The warranty is void in case of damages that result from a totally discharged battery!
- When the A200 is not used over extended periods of time it must be charged once a week.
- Only the battery charger provided by Otto Bock may be used for charging.



#### Note:

During battery charging, the control must be switched off. In this way, the complete charging current will be fed into the battery.



#### Note:

Ensure that the vent slots on the charger are not covered.

Use the battery charger only within the indicated temperature range and humidity limits (see section 15 "Technical Data of the Battery Charger").

Make sure that the rubber feet of the battery charger stand on level ground.

When the battery charger is in use, it must be protected from direct sunlight, since this would additionally heat up the charger.

Avoid dust and dirt from affecting the function of the battery charger.

To clean the charger, use a dry piece of cloth.

## 10.8 Batteries

The A200 comes factory-equipped with two maintenance-free 28 Ah GEL batteries. The applied gel technology fulfills the latest provisions regarding safety and environmental tolerance through close construction. For increased safety and to facilitate handling, the batteries are integrated in separate battery packs. Thanks to special gel additions, these batteries are particular well-suited for electric drive systems and have been designed with a high cycle solidity. For exchange or disposal of the batteries (batteries within plastic pack), please contact your authorised dealer. The batteries are to be replaced as complete units. The housing must not be opened. Lead batteries are valuable substances. The batteries can be recycled to 100 %. (Figs. 18/19)



**Attention!**

Regularly checking of the remaining battery capacity and charging of the battery early enough are indispensable preconditions for the operational safety of your power wheelchair.



**Figure 18**



**Figure 19**

### 10.9 Fuse

The two 60 A fuses are located at the rear end of the battery packs between the battery's contacts (Fig. 19).

## 11 Status and Error Analysis

The following table lists the different error and status messages of the battery indicator and describes the corresponding possible causes and solutions. This offers the possibility for yourself to identify and eliminate errors of the A200. If you do not manage to solve the problem, please contact your dealer.

Indicator	Cause	Possible solution
Battery indicator flashes slowly	Battery is empty	Charge as soon as possible
More and more LEDs of the battery indicator begin to flash	Battery charger is connected, A200 not ready for driving	Disconnect the battery charger, switch off and on
Battery indicator flashes once every 2.5 seconds	Sleeping mode after longer time of standstill with the wheelchair control switched on	Switch off and on
Battery indicator flashes quickly	Safety-relevant problem, driving function switched off	Switch off and on check plug connections and that battery voltage is ok
Fast flashing of LED 1 (red)	Battery empty or poor connection to the battery	Charge the battery or check the plug connections
Fast flashing of LEDs 1-2	Poor connection to the left motor	Check the motor plug connection
Fast flashing of LEDs 1-3	Short circuit on the left motor	Check the motor plug connection
Fast flashing of LEDs 1-4	Poor connection to the right motor	Check the motor plug connection
Fast flashing of LEDs 1-5	Short circuit on the right motor	Check the motor plug connection
Fast flashing of LEDs 1-6	Influence by an external signal (e.g. charging plug)	Remove the charging plug

Fast flashing of LEDs 1-7	Joystick error	Joystick in mid-position when switching on
Fast flashing of LEDs 1-8	Error of control unit	Check the plug connection
Fast flashing of LEDs 1-9	Brake has been released	Lock the brake or check the motor plug connection
Fast flashing of LEDs 1-10	Overvoltage on the control unit	Check the battery plug connection

## 12 A200 Standard Version

The functions of the standard version are described in section 6.2 "Disassembling the A200 Power Wheelchair", section 7 "Adjustment Possibilities", and section 9 "Putting into Operation".

## 13 Options

The A200 has been designed as a modular system.

For accessories and options please refer to the order form.

The options and adjustment possibilities are described in the following.

### 13.1 Control Panel

#### 13.1.1 Control Panel, swing-away

To allow the user to drive closer to a table or even below the edge of a table, the control panel can be swung to the side with a special control panel holder. A light pressure from the side on the control panel body will disengage the holder which now can easily be swung to the rear in parallel. When bringing the control panel back to its original position, the pivot element engages automatically.

### 13.2 Pelvic Belt

The A200 can be equipped with a pelvic belt. The pelvic belt serves exclusively for fixation when driving the power wheelchair. The belt must never be used as a safety belt for the user when being transported in the wheelchair in a motor vehicle.

### 13.3 Other Options

- **Contoured seating systems**

Increased sitting comfort

- **Headrest mounting kit**

Headrests of our Accessories Catalogue

These and other optional add-on components are described on the order form and in the Accessories Catalogue.

## 14 Maintenance and Cleaning

### 14.1 Maintenance

The correct function of the A200 should be checked before every use. The checks listed in the following table must be carried out by the user at the indicated intervals. Failure to carry out these simple checks may lead to problems arising that could invalidate the warranty.

To be checked	daily	weekly	monthly
<b>Tyres</b>			
Tyre air pressure (printed on the sidewall of the tyre)			X
Condition of tyres			X
<b>Batteries</b>			
Battery capacity	X		
<b>Electronics</b>			
Control without error message?	<b>&gt;&gt; each time before driving &lt;&lt;</b>		
Does the battery charger show any error messages on the LEDs?		X	

If you have any problems carrying out this maintenance, please contact your authorised dealer (see section 4 "Service"). Tyre change and tyre repair will also be carried out by the dealer.

## 14.2 Cleaning

When cleaning the A200, please be particularly careful with the electrical components. Please observe the following instructions:

- For cleaning the control panel, battery charger, armrest and seat upholstery use only a damp piece of cloth and a mild cleansing solution.
- For cleaning the back upholstery and seat cushion use a dry brush.
- For cleaning wheels and frame use a damp plastic brush.
- Please prevent the electronics, motors and batteries from direct contact with water.
- Do not use any scouring agents.
- Never use a water hose or high-pressure cleaning apparatus for cleaning the wheelchair.



**Note:**

Please ensure your A200 is checked and serviced at least ONCE a year by an authorised dealer!

## 15 Disposal

For disposal of the A200 power wheelchair, the disposal regulations of the respective country shall apply.

## 16 Technical Data of the A200

### Measurements and weights

Seat width:	38 - 42 cm
Seat depth:	38 - 46 cm
Seat height:	43 / 48 cm
Armrest height:	24 - 36 cm
Armrest length:	26 cm
Lower leg length:	Standard seat 25 - 45 cm Contoured seat 28 - 53 cm
Back height:	45 or 55 cm
Backrest angle:	-9/1/11/21° or 0/10/20/30°
Overall width:	57 cm
Overall height:	103 cm
Overall length	100 cm
Turning radius	154 cm
Tyre size	front: 8"
	rear: 12.1/2x2.1/4"
Air pressure	printed on the sidewall of the tyre
Weight when empty:	66 kg
Maximum load capacity:	100 kg (patient weight)

### Electrical installation

Operating voltage:	24 V
Batteries:	Gel batteries: 2 x 12V 28Ah (20h)
Electronics:	model: P&G VSI
	24 V DC max. 60 A
Battery charger	model: Powercharge Standard 5A
Fuse:	60 A

### Driving data

Speed:	6 km/h
Climbing ability:	12 %
Obstacle height that can be cleared:	8 cm
Distance range:	15 km
Technical modifications reserved	

## 17 Technical Data of the Battery Charger

Automatic battery charger with computer-controlled characteristic curve for 24 V sulfuric acid batteries.

Power requirements:	230 V AC
Mains frequency:	50 Hz
Protection class:	II, insulated twice
Charging connection:	24 VDC
Nominal charging current:	max. 5A programmable
Protective system:	IP 54
Weight:	approx. 1 kg
Dimensions (WxHxD)	(175 x 140 x 59) mm

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# Kundenservice/Customer Service

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