

REIZBERG



RX3

***Electric Wheelchair
Instructions for Use***

English

Table of Contents

1	Introduction.....	2
1.1	Information about these Instructions for Use	2
1.2	Target groups.....	2
1.2.1	Patients (Users / Drivers).....	2
1.2.2	Attendants (Control of the RX3 electric wheelchair).....	2
1.2.3	Healthcare professionals	2
1.2.4	Maintenance and service personnel.....	3
1.3	Conventions.....	3
1.3.1	Safety instructions and other notices	3
1.3.2	Operating instructions.....	4
1.4	Warranty.....	4
1.5	Service life.....	4
1.6	Copyright.....	4
1.7	Contact details.....	5
1.8	Explanation of symbols on the label.....	5
2	Product description.....	6
2.1	Functional description	6
2.2	Accessories.....	6
2.3	Design and components.....	7
2.3.1	Brake lever	8
2.3.2	Footrest	9
2.3.3	Seat belt	9
2.3.4	Armrests.....	9
2.3.5	Backrest.....	10
2.3.6	Control unit.....	10
3	Technical data.....	12
3.1	Storage conditions.....	12
3.2	Operating conditions.....	12
3.3	..General specifications	13
3.4	Load capacity.....	14
4	Safety.....	15
4.1	Conditions of use.....	15
4.2	Intended purpose and indication	15
4.3	Foreseeable misuse and contraindications.....	15
4.3.1	Undesirable side effects	17
4.3.2	Advice from healthcare professionals	17
4.4	Hazards during transport and commissioning	17
4.4.1	Transport of the RX3 electric wheelchair	17
4.4.2	Transport of the batteries	17
4.4.3	Installation	18
4.5	Hazards during operation and maintenance	18
4.5.1	Hazards related to the lithium-ion battery	18
4.5.2	Hazards caused by high temperatures	18
4.5.3	Hazards caused by electric current.....	19
4.5.4	Mechanical hazards	19
4.5.5	Hazards while driving (automatic mode)	19
4.5.6	Hazards while driving (manual mode).....	21
4.5.7	Electromagnetic compatibility (EMC)	21
4.6	Safety devices and safety functions.....	22

4.6.1	Overcurrent protection and undervoltage protection	22
4.6.2	Battery holder	22
4.6.3	Seat belt	22
4.6.4	Footrest	22
4.7	Warning and information labels	23
5	Installation	24
5.1	Unfolding the RX3 electric wheelchair	24
5.2	Installing the control unit	26
5.3	Inserting or removing the battery	27
6	Transport	18
6.1	Transporting the RX3 electric wheelchair	18
6.2	Folding the RX3 electric wheelchair	18
6.3	Separate transport of the battery	30
6.4	Transporting the RX3 electric wheelchair by air	30
7	Operation	31
7.1	Safety instructions before setting off	31
7.2	Switching on the RX3 electric wheelchair	32
7.3	Taking the RX3 electric wheelchair out of operation	33
7.4	Getting into and out of the RX3 electric wheelchair	33
7.5	Using the control unit	34
7.6	Controlling the RX3 electric wheelchair using the joystick	35
7.7	Driving on slopes	35
7.8	Overcoming obstacles	36
7.9	Lifting the RX3 electric wheelchair using a lifting platform	36
7.10	Pushing the RX3 electric wheelchair manually	36
7.11	Behaviour in the event of a malfunction	37
7.12	Charging the battery	37
8	Troubleshooting	38
8.1	Fault rectification	38
9	Maintenance and cleaning	40
9.1	General information	40
9.2	Cleaning and care	40
9.3	Maintenance schedule	41
9.4	Re-use / Reprocessing	41
10	Disassembly and disposal	43
10.1	Disassembly	43
10.2	Disposal	43

1 Introduction

This chapter provides information on the structure and purpose of these Instructions for Use as well as details about the manufacturer and distributor.

1.1 Information about these Instructions for Use

These Instructions for Use are an essential aid for the successful and safe use of the RX3 electric wheelchair. They contain important information on safe and proper use. Observance of these Instructions for Use helps to avoid hazards, reduce repair costs and downtime, and increase the reliability and service life of the RX3 electric wheelchair. These Instructions for Use must be read and applied by every person who uses the RX3 electric wheelchair or works on or with it.

The designation RX3 is used as the commercial product name, while N3901 is the manufacturer's technical model reference. Technical documentation, test reports and regulatory documents prepared under the reference N3901 shall apply accordingly to the RX3 electric wheelchair.

The personal designations used apply equally to female, male and diverse persons. Double naming and gendered designations have been omitted in favour of better readability.

1.2 Target groups

These Instructions for Use are intended for all persons who use the product or who work with or on the device. This includes in particular:

1.2.1 Patients (users / drivers)

Persons with:

- health- or age-related mobility impairments or disabilities
- sufficient orientation, coordination and cognitive abilities

Users must have read and understood these Instructions for Use. They must be instructed in the safe use of the device by a healthcare professional or qualified technical personnel before first use.

1.2.2 Attendants (manual handling of the electric wheelchair RX3)

Attendants must have read and understood these Instructions for Use and must be trained in the safe handling of the device by qualified personnel.

The attendant supports the user, particularly when:

- switching the wheelchair to manual mode
- pushing or manoeuvring the wheelchair RX3 in manual mode

1.2.3 Healthcare professionals

Healthcare professionals who work with or on the product must meet the following requirements:

- Qualified specialist
- Knowledge of the applicable regulations as well as the rules on accident prevention, occupational safety and environmental protection

1.2.4 Maintenance and service personnel

Persons carrying out maintenance and servicing work on the product must meet the following requirements:

- Qualified specialist
- Knowledge of the applicable regulations as well as the rules on accident prevention, occupational safety and environmental protection

1.3 Conventions

1.3.1 Safety instructions and other notices

Safety information in these Instructions for Use is presented using signal words and symbols to indicate the level of risk.

Symbol	Signal word	Meaning
	DANGER	Indicates an imminent hazardous situation which will result in death or serious injury if not avoided.
	WARNING	Indicates a potentially hazardous situation which could result in death or serious injury.
	CAUTION	Indicates a potentially hazardous situation which may result in minor or moderate injury.
	NOTICE	Indicates information that must be observed to ensure safe operation and prevent material damage.

Safety instructions are structured as follows:

- Signal word
→ indicates the severity of the hazard.
- Type and source of hazard
→ describes the nature and origin of the hazard.
- Possible consequences
→ describes potential injuries or damage.
- Preventive measures
→ explains how to avoid the Hazard.

Example of a safety instruction:



WARNING

Risk of personal injury and property damage

Various hazards may occur during use of the device.

- To prevent injury and material damage, the device shall only be used in accordance with its intended purpose.

1.3.2 Operating instructions

Operating instructions are presented as numbered steps in order to indicate the correct sequence of actions. If applicable, the result of an action is described directly below the corresponding step.

Example:

- 1 This is the first step.
 - 2 This is the second step.
- This is the result of the second step.

1.4 Warranty

The warranty conditions form part of the currently applicable general terms and conditions. The warranty period for individual components of the RX3 electric wheelchair can be found in the following overview:

- Frame: 5 years
- Other components: 1 year

The warranty covers defects in materials and workmanship under proper use of the product. The warranty excludes, in particular, damage caused by improper use, unauthorised modifications, the use of non-approved parts, as well as natural wear and tear.

Information on warranty and service is available from your specialist dealer.

1.5 Service life

According to the manufacturer, the expected service life of the RX3 electric wheelchair is five years, provided that the device is used in accordance with its intended purpose and all maintenance and care instructions are followed. The actual service life may vary depending on frequency of use, environmental conditions and level of maintenance. The service life may be extended by replacing worn components with approved spare parts.

1.6 Copyright

Reprinting, including excerpts, as well as translation, reproduction, storage and distribution, including transfer to electronic data carriers and storage in electronic media, requires the express written consent of the specialist dealer.

No claims may be derived from the information or illustrations contained herein. We reserve the right to make changes in technology, design and equipment. No liability is assumed for errors or misprints.

1.7 Contact details

Manufacturer



Zhejiang Richall Medical Technology Co., Ltd.
No. 353 Baozhang Road
Pujiang County, Jinhua City, Zhejiang Province
CHINA

Importer



Producto Sanitario Ingeniería y
consultoría S.L.
Plaza del sol 30, oficina 82
28938, Móstoles - Madrid
SPAIN

EU Authorised Representative



SUNGO Europe B.V.
Fascinatio Boulevard 522 Unit 1.7
2909 VA, Capelle Aan Den IJssel
NETHERLANDS

Distributor



Reizberg Mobility Tech. Co. S.L
Calle Algeciras 58
11380 Tarifa - Cádiz
SPAIN
www.reizberg.eu
info@reizberg.eu

Any serious incident that has occurred in relation to the product must be reported to the distributor and to the competent authority of the Member State in which the user and/or patient is established.

1.8 Explanation of symbols on the label

The following symbols are used on the device label from the electric wheelchair RX3:

Symbol	Meaning
	Authorised representative in the European Union
	Medical device
	Serial number
	Unique Device Identifier (UDI)
	Manufacturer
	Date of manufacture
	NOT approved for use as a seat in a motor vehicle
	Importer
	Distributor

2 Product description

This chapter provides information about the design, components and functional characteristics of the RX3 electric wheelchair.

2.1 Functional description

The RX3 electric wheelchair consists of a lightweight, foldable carbon fibre frame (9). When folded, the wheelchair measures approximately 730 × 250 × 700 mm (length × width × height). When unfolded, the dimensions are approximately 920 × 620 × 870 mm (length × width × height).

The total weight of the wheelchair is approximately 13.3 kg.

Power is supplied to the two electric motors (10) by a lithium-ion battery. The battery is located beneath the seat (4) in the battery holder (3). The electric motors are positioned on the inner side of the right and left rear wheels (11).

The wheelchair is operated using the control unit (5) and can reach a maximum speed of 6 km/h. Alternatively, the wheelchair can be pushed manually using the push handles (6) located at the upper part of the backrest (7).

The seat cushion improves seating comfort and can be removed for cleaning purposes. The seat belt is permanently mounted at the rear section of the seat surface. Before driving, the user must fasten the seat belt securely around the waist.

The armrests (8) on both sides of the seat can be folded upwards to allow lateral transfer. The footrest (1) provides safe positioning of the feet and prevents contact with the front wheels (2). The footrest can also be folded when required.

An electromagnetic braking system is integrated to ensure safe deceleration of the wheelchair.

2.2 Accessories

Only accessories approved by the manufacturer shall be used in combination with the RX3 electric wheelchair. For replacement parts or additional accessories, contact your authorised dealer. The following components are included in the standard scope of delivery:

Quantity	Designation
1	Control unit
2	Footrest
1	Seat cushion
1	Seat belt
1	Battery
1	Battery charger

2.3 Design and components

The RX3 electric wheelchair consists of the following main components:



Figure 1: Overview

- | | |
|------------------|--------------------|
| 1 Footrest | 7 Backrest |
| 2 Front wheels | 8 Armrests |
| 3 Battery holder | 9 Frame |
| 4 Seat | 10 Electric motors |
| 5 Control unit | 11 Rear wheels |
| 6 Push handles | 12 Anti-tip wheels |

2.3.1 Brake lever

A brake lever is located on the inner side of each rear wheel. These levers allow selection between the operating modes of the RX3 electric wheelchair:

- Automatic mode (A, see Figure 2) enables electronic control of the wheelchair by the user via the control system. The electromagnetic brake is activated automatically as soon as the joystick is released.
- Manual mode (M, see Figure 2) enables the wheelchair to be pushed manually by an attendant. In this mode, the electromagnetic brake is deactivated. Driving on slopes is not permitted in manual mode. As soon as the wheelchair comes to a stop, the brake lever must be returned to automatic mode.



Figure 2: Brake lever (automatic/manual operation)

2.3.2 Footrest

During operation of the RX3 electric wheelchair, the user places their feet on the footrest. This helps to prevent injuries and unintended braking.

For use, the footrest must be fully folded out. Please note that the footrest must be folded up during transfer into and out of the wheelchair so that it is not stepped on accidentally.



CAUTION

Risk of tipping due to loading the footrest

Avoid placing any weight on the footrest when getting into or out of the wheelchair. Loading the footrest may damage it or cause the wheelchair to tip over.



NOTICE

Damage to the footrest due to excessive load

Excessive load may damage the footrest.

- Fold the footrest up during transfer to avoid stepping on it accidentally.
 - Avoid applying unusually high forces to the footrest, such as heavy pressing or kicking.
-

2.3.3 Seat belt

The seat belt is intended to provide secure support for the user on the seat surface of the RX3 electric wheelchair. It is permanently mounted at the rear end of the seat surface. The seat belt can be opened and closed by means of the buckle. Its length must be adjusted so that the user is held securely.



CAUTION

Risk of injury due to incorrect adjustment of the seat belt length

There is a risk of injury due to pinching or constriction if the seat belt length is adjusted incorrectly.

- Adjust the seat belt length according to the user's body shape.
 - Make sure that the seat belt is neither too loose nor too tight.
-

2.3.4 Armrests

The armrests provide additional stability and comfort. Both armrests include mounting provisions for the control unit. They can be folded upwards to allow lateral access.

2.3.5 Backrest

The backrest provides support and seating comfort for the user. It is equipped with integrated push handles that allow the RX3 electric wheelchair to be manoeuvred manually by an attendant.



NOTICE

Damage to the backrest due to excessive load

Excessive loading may result in damage to the backrest.

2.3.6 Control unit

The RX3 electric wheelchair is operated using the control unit.

In the upper area of the control unit, there is the LED indicator for the battery charge level (1).

In the central area of the control unit, there is the LED indicator for the selected speed level (5).

The function buttons are also located in the central area of the control unit. The on/off button (7) is used to switch the RX3 electric wheelchair on and off. The button with the hare symbol (3) increases the speed level. The button with the tortoise symbol (6) reduces the speed level. The horn is activated using the horn button (2).

In the lower area of the control unit, there is the joystick (4) for controlling the RX3 electric wheelchair.

Before switching on and setting off, observe the operating and safety instructions in Chapter 7 “Operation” on page 31.

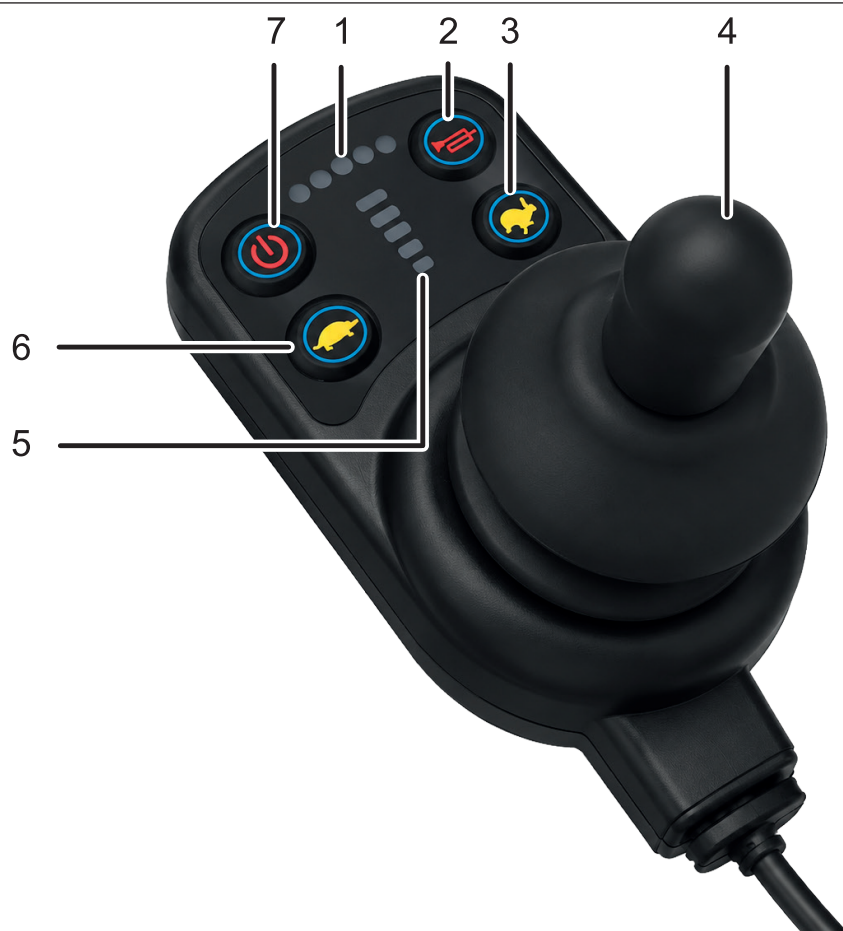


Figure 3: Control unit

- | | | | |
|---|--|---|-------------------------------------|
| 1 | LED indicator for battery charge level | 5 | LED indicator for speed level |
| 2 | Horn button | 6 | Button for reducing the speed level |
| 3 | Button for increasing the speed level | 7 | On/off button |
| 4 | Joystick | | |

No.	Control element	Description
1	LED indicator for battery charge level	The LED indicator shows the current battery charge level.
2	Horn button	Press the button to activate an acoustic signal.
3	Button for increasing the speed level	Press the button with the hare symbol to increase the speed level.
4	Joystick	The joystick is used to control the direction and speed of the RX3 electric wheelchair.
5	LED indicator for speed level	The LED indicator shows the selected speed level.
6	Button for reducing the speed level	Press the button with the tortoise symbol to reduce the speed level.
7	On/off button	Press the button to switch the RX3 electric wheelchair on or off.

3 Technical data

This chapter provides information regarding storage conditions, permitted operating conditions and the technical specifications of the RX3 electric wheelchair.

3.1 Storage conditions



NOTICE

Damage to the battery due to prolonged non-use

If the battery is not charged over an extended period of time, this may result in damage to the battery and the RX3 electric wheelchair.

- If the device is not used, charge the battery to approximately 80 % once per month.

Store the RX3 electric wheelchair indoors in a cool and dry place when not in use. Observe the environmental storage conditions specified in the following table.

Parameter	Value
Ambient temperature	-25 °C to +70 °C
Relative humidity	0 % to 90 %
Atmospheric pressure	700 hPa to 1060 hPa

3.2 Operating conditions

The use of the RX3 electric wheelchair is only permitted if the operating and environmental conditions specified in the following table are observed. If the external conditions do not correspond to the specified operating and environmental conditions, operation of the RX3 electric wheelchair is prohibited.

Parameter	Value or note
Ambient temperature	+5 °C to +40 °C
Relative humidity	15 % to 90 %
Atmospheric pressure	700 hPa to 1060 hPa
Impermissible weather conditions	Do not use in: • rain or mud • snow or frost
Permissible ground conditions (indoor)	For use on level surfaces in: • residential environments • hospitals • care facilities • nearby buildings
Permissible ground conditions (outdoor)	For use on: • sufficiently wide, • firm, • level, • intact and • dry surfaces made of concrete, asphalt and well-compacted level walking paths.

Parameter	Value or Note
Impermissible ground conditions	Do not use on: • uneven, loose, narrow or icy surfaces • grass or gravel • gaps wider than 100 mm • obstacles higher than 30 mm
Gradient	Max. 9°

3.3 General specifications

Parameter	Value or Note
Designation	Electric wheelchair RX3
Model	N3901
Basic UDI-DI	697676662PW01V4
Classification according to Regulation (EU) 2017/745	Class I
Dimensions (length × width × height)	920 x 620 x 870 mm
Dimensions folded (length × width × height)	730 x 250 x 700 mm
Seat height	450 mm
Seat width × seat depth	460 x 400 mm
Armrest height	220 mm
Backrest height	430 mm
Weight	13.3 kg (with battery) 11.6 kg (without battery)
Power supply (battery)	24 V, 10 Ah
Motor power (2x)	24 V, 150 W
Speed	Max. 6 km/h
Range	Max. 12 km
Brake	electromagnetic
Load capacity	Max. 120 kg
Max. incline during driving (longitudinal direction)	Max. 3°
Max. lateral incline during driving (side tilt)	Max. 3°
Max. incline when stationary/parking max. 6°	Max. 6°
Do not drive on inclines exceeding	Max. 9°
Tyre size front wheel	7"
Tyre size rear wheel	11"

3.4 Load capacity



CAUTION

Risk of injury when training with weights

Training with weights is prohibited even if the maximum load capacity is observed, as this may lead to damage to the frame, the seat or the folding mechanism and may result in injury.

- Do not train with weights while using the RX3 electric wheelchair.
-

The maximum load capacity of 120 kg must not be exceeded. This includes:

- transported items such as backpacks, bags, etc.
- objects held by the driver in their hands

4 Safety

The RX3 electric wheelchair has been manufactured in accordance with the latest state of the art and is safe to operate when the Instructions for Use and all specified requirements are observed. Nevertheless, hazards to life and limb as well as damage to the product and other property may occur during its use.



NOTICE

Safety instructions and warnings

For safe handling of the RX3 electric wheelchair, observe the safety instructions in this section and the warnings in other sections of these Instructions for Use.

4.1 Conditions of use

In order to use the product properly, observe the following instructions:

- Use the product only in proper condition and in a technically faultless state.
- Use the product only in accordance with its intended purpose and indication and in a safety- and hazard-conscious manner, observing these Instructions for Use.
- If you notice damage or malfunctions that may impair safety, do not operate the product and have the faults rectified.

4.2 Intended purpose and indication

Knowledge of these Instructions for Use and compliance with all contained instructions, maintenance and inspection requirements are necessary for the intended use of the RX3 electric wheelchair.

The RX3 electric wheelchair is intended for use by persons with health- or age-related walking impairments or disabilities who have sufficient orientation and coordination abilities.

The RX3 electric wheelchair serves to maintain mobility indoors and outdoors.

It is intended exclusively for use on level paths in residential environments, hospitals, care facilities and nearby buildings as well as on paved paths made of concrete or asphalt. Also observe the information in section 3.2 "Operating conditions" on page 12.

For the intended use of the product, the following additional conditions must be observed:

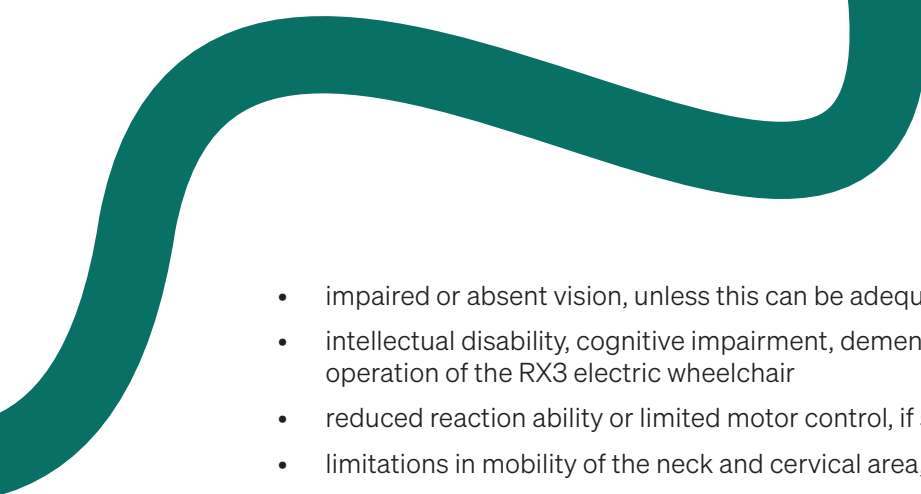
- No modifications or additions to the system may be made.
- Only the activities described in section 9 "Maintenance and cleaning" on page 40 are permitted.

Any other use or use beyond the intended purpose shall be considered improper use.

4.3 Improper use and contraindications

Use of the RX3 electric wheelchair is prohibited if the safe use of the product cannot be ensured. This applies in particular in the following cases:

- inability to operate the control unit safely
- inability to sit safely and stably in the RX3 electric wheelchair

- 
- impaired or absent vision, unless this can be adequately compensated for by suitable aids
 - intellectual disability, cognitive impairment, dementia or mental illness, if this affects the safe operation of the RX3 electric wheelchair
 - reduced reaction ability or limited motor control, if safe use cannot be ensured as a result
 - limitations in mobility of the neck and cervical area, if this impairs safe orientation while driving
 - use contrary to medical advice

Improper use is deemed to occur if the product is used for a purpose other than that described in section 4.2 “Intended purpose and indication” on page 15.

Examples of improper use include:

- use of the RX3 electric wheelchair for purposes other than use on level paths in residential environments, hospitals, care facilities and nearby buildings as well as on paved paths made of concrete or asphalt.
- use as a seat in a vehicle during transport.
- use of the product in means of transport such as buses and local or long-distance trains.
- use of the product for strength training, training with weights, athletics and other sports.
- use in the event of visible damage and functional faults.
- driving on stairs or escalators.
- use of additional padding or cushions in the seating area. This may lead to a change in the centre of gravity and balance and may result in instability. Subsequent modification of the product requires the written consent of the manufacturer.
- subsequent modifications or use of components not intended for use without prior written consent of the manufacturer. This may impair function and safety.
- use in potentially explosive atmospheres.
- use or storage of the product in environments with corrosive gases, excessive dust generation, fine particles or oil vapours.
- use by persons who are overtired or under the influence of substances or medication that impair visual perception, coordination ability or judgement.
- non-compliance or insufficient compliance with the information in these Instructions for Use, in particular non-compliance with the operating conditions.
- use of spare parts or components not approved by the manufacturer.
- incorrect or improper operation or incorrect or improper use.
- removal, manipulation or failure to install safety devices, in particular the battery holder.
- modification of functions.
- unauthorised modifications to the product.
- improper execution of maintenance.

The RX3 electric wheelchair is not intended for use in potentially explosive atmospheres (ATEX zones). Do not use the product near flammable gases, vapours or dust atmospheres.

4.3.1 Undesirable side effects

Prolonged sitting may lead to pressure sores (decubitus). To avoid this, observe the following safety instructions:

- Ensure regular pressure relief by changing the seating position.
- Use suitable medical seat cushions.
- Carry out regular checks of the skin in the seating area.
- In case of complaints, stop using the product and seek medical advice.

4.3.2 Advice from healthcare professionals

Seek advice from a healthcare professional in the following cases:

- pain
- circulatory or sensory disorders
- pressure sores or redness
- fall or near-fall

4.4 Hazards during transport and commissioning

During transport and commissioning of the RX3 electric wheelchair, mechanical hazards as well as hazards related to the battery may occur.

4.4.1 Transport of the electric wheelchair

Mechanical hazards may occur during transport of the RX3 electric wheelchair. To avoid damage to the product or personal injury, observe the following safety instructions:

- Transport the RX3 electric wheelchair only in the folded condition, as described in section 6.2 “Folding the RX3 electric wheelchair” on page 28.
- Observe the centre of gravity and weight distribution of the RX3 electric wheelchair when lifting, loading and securing it. Only hold the product at suitable points on the frame. Use suitable aids if necessary (e.g. ramps, lifting devices).
- Secure the RX3 electric wheelchair against slipping or tipping during transport in a vehicle. Use suitable lashing straps and fastening points.
- Always transport the RX3 electric wheelchair with minimal shock and vibration. Strong impacts may damage electronic components or the battery.
- Avoid extreme temperatures (e.g. frost or direct sunlight) during transport, as this may affect the battery and electronics. Also observe the information in section 3.2 “Operating conditions” on page 12.

4.4.2 Transport of the battery

In connection with lithium-ion batteries, hazards may arise due to sparking or short circuits. Observe the following safety instructions:

- Store the battery in a separate shock-resistant transport box during longer transport routes.
- Do not expose the battery to excessive vibrations during transport.

- Protect the battery from direct sunlight as well as from wetness and moisture during transport.
- Keep the battery away from open fire, sparks and corrosive substances.

4.4.3 Installation

Observe the following safety instructions during installation:

- Fully charge the supplied battery before using the RX3 electric wheelchair for the first time.
- Ensure that the RX3 electric wheelchair is switched off before inserting or removing the battery.
- Ensure that the RX3 electric wheelchair is switched off before installing the control unit.

4.5 Hazards during operation and maintenance

Different hazards may occur during operation and maintenance. Therefore, observe the safety instructions in the following sections.

4.5.1 Hazards related to the lithium-ion battery

The lithium-ion battery contains corrosive chemicals. Hazards may arise due to sparking or short circuits. Improper handling may result in hazards to the product as well as personal injury. To avoid this, observe the following safety instructions:

- Keep the battery away from open fire, sparks and corrosive substances.
- Observe the operating conditions as specified in section 3.2 “Operating conditions” on page 12.
- Do not disassemble the battery.
- Keep charging cables and connections in proper condition. Do not step on the cables and do not bend them. Keep the connections free from contamination.
- Switch off the RX3 electric wheelchair before charging the battery and do not operate it during the charging process.
- Fully charge the battery before using the RX3 electric wheelchair for the first time.
- Do not exceed the maximum charging time of 8 hours. Disconnect the charger from the battery and the power supply immediately after charging.
- It is recommended to fully discharge the battery once per month.
- Charge the battery to 80 % once per month if the device is not in use.

4.5.2 Hazards due to high temperatures

During operation of the RX3 electric wheelchair and due to direct sunlight, components such as the battery, the motors, the armrests and the seat surface may heat up. To avoid injuries caused by high temperatures, observe the following safety instructions:

- Avoid direct sunlight so that components of the RX3 electric wheelchair do not heat up.
- If components such as the armrests or the seat surface have become heated due to sunlight, allow them to cool down before using the RX3 electric wheelchair.

4.5.3 Hazards due to electric current

Work on the electrical equipment of the product may only be carried out by qualified electricians in accordance with electrical engineering regulations. In the event of malfunctions and before carrying out work on the electrical system, it must be switched off and secured in accordance with the following safety rules:

- Switch off the RX3 electric wheelchair and, if necessary, disconnect it from the power supply.
- Verify that the system is de-energised.

The RX3 electric wheelchair is operated using electric current. Contact with live components may result in serious injury or death. To avoid this, observe the following safety instructions:

- Do not work on electrical components while they are energised.
- Disconnect the RX3 electric wheelchair from the power supply before carrying out maintenance work on the electrical system.
- Use original fuses with the specified current ratings. Defective fuses must not be repaired or bypassed.

4.5.4 Mechanical hazards

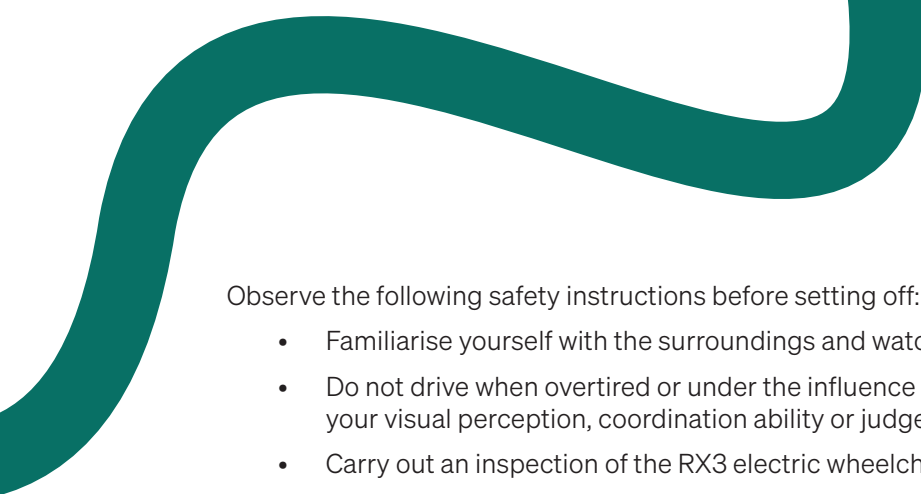
During operation of the RX3 electric wheelchair, mechanical hazards may occur, such as crushing hazards, entrapment of clothing or body parts, hazards caused by moving parts and loss of stability. To avoid this, observe the following safety instructions during operation:

- Never reach into moving parts of the RX3 electric wheelchair during operation.
- Avoid wearing loose and long clothing that may get caught in the wheel area while driving.
- Do not lean beyond the seating area to the sides, forwards or backwards and do not attempt to pick up objects that have fallen onto the ground.
- Always keep your lower back in contact with the backrest.
- Observe balance and centre of gravity while driving the RX3 electric wheelchair in order to prevent tipping.
- Avoid unusually strong forces on the footrest, such as heavy pressing or kicking.
- Avoid sudden movements with the joystick.
- If the RX3 electric wheelchair performs an unexpected or unusual movement, release the joystick immediately in order to stop.

4.5.5 Hazards during driving (automatic mode)

Familiarise yourself with the RX3 electric wheelchair and its control elements before operating and controlling it independently. Practise the following movements with a healthcare professional until you are familiar with the functions independently, competently and safely:

- driving forwards and backwards
- overcoming obstacles
- turning
- braking



Observe the following safety instructions before setting off:

- Familiarise yourself with the surroundings and watch out for possible hazards.
- Do not drive when overtired or under the influence of substances or medication that impair your visual perception, coordination ability or judgement.
- Carry out an inspection of the RX3 electric wheelchair for visible damage and proper condition.
- Familiarise yourself with local pedestrian traffic regulations. Pay particular attention to this when travelling abroad.
- Do not drive at night or in poor visibility conditions unless the RX3 electric wheelchair is equipped with lighting in accordance with road traffic regulations.
- If optional lighting equipment is installed, always observe the instructions in the accompanying operating manual when using it.

When driving on slopes, declines or ramps, there is an increased risk of tipping. To avoid accidents, observe the following safety instructions:

- Do not drive on slopes with a gradient of more than 9°.
- Do not drive on slopes in wet, icy or snowy conditions.
- Only use ramps with sufficient lateral edge protection.
- Ensure that the ramp is dry and clean.
- The ramp should be wider than the RX3 electric wheelchair.
- Only drive on slopes straight and parallel to the direction of the slope.
- Be aware of the change in balance and centre of gravity.
 - Lean your upper body slightly forwards when driving uphill.
 - Press your upper body slightly backwards against the backrest when driving downhill.
- Reduce speed when driving on slopes and avoid sudden braking and acceleration.
- Do not overcome obstacles on slopes.

Driving characteristics may deteriorate on certain surfaces – such as gravel, sand or thick carpets – particularly at low speed or with a low battery charge. Therefore observe the following safety instructions:

- Always adapt the speed of the RX3 electric wheelchair to the ground surface.
- Grooves, rails and similar obstacles may only be crossed at a right angle (90°).

4.5.6 Hazards during driving (manual mode)

In manual mode, the drive and brake are deactivated, so that control is carried out exclusively by the attendant. Observe the following safety instructions before setting off:

- Never switch to manual mode without an attendant.
- Do not manoeuvre the RX3 electric wheelchair on slopes in manual mode and do not park it on slopes.
- The attendant and the driver must cooperate and communicate clearly.
- Do not apply force to the backrest in order to tilt the RX3 electric wheelchair and drive over an obstacle. Instead, steer around the obstacle.
- Do not manoeuvre the RX3 electric wheelchair when overtired or under the influence of substances or medication that impair visual perception, coordination ability or judgement.

4.5.7 Electromagnetic compatibility (EMC)

The RX3 electric wheelchair has been tested for electromagnetic compatibility in accordance with the requirements of standard IEC 60601-1-2. The product complies with these requirements and is suitable for use in typical domestic and public environments.

Nevertheless, electromagnetic fields in the surrounding environment may affect the function of the RX3 electric wheelchair. To ensure safe operation, observe the following instructions.

Electromagnetic interference may occur due to the following sources:

- mobile phones
- radio equipment (e.g. company radio systems, amateur radio)
- WLAN routers, Bluetooth devices
- microwave ovens and other household appliances
- medical high-frequency devices and large electromedical systems
- radio, television and mobile communication antennas
- automatic door systems and safety sensors
- other transmitters and receivers that generate high-frequency radiation

Electromagnetic interference may manifest itself as:

- delayed or inaccurate response of the control system
- unexpected movement stops
- error messages or unusual noises
- brief interruptions of the power supply or motor function

To avoid interference, observe the following protective measures:

- Use only original parts and accessories approved by the manufacturer. Non-approved components may impair electromagnetic immunity.
- When using mobile phones and other portable radio equipment (up to max. 2 W), maintain a safety distance of at least 30 cm from the RX3 electric wheelchair.
- Do not use the RX3 electric wheelchair in the immediate vicinity of strong transmitting equipment such as radio or television stations or other high-power transmission systems. If the RX3 electric wheelchair is used in such an environment, its proper functioning must be checked afterwards.

4.6 Safety devices and safety functions

The following safety devices are part of the safety concept of the product. Safety devices ensure the protection of persons and property only if they function properly.

Observe the following instructions:

- Keep the safety devices in functional condition and check the battery holder, the seat belt and the footrest for correct function before starting to drive.
- Do not operate the product with defective or missing safety devices.
- Do not modify safety devices or put them out of operation.
- Have defective safety devices replaced or repaired immediately by qualified specialists.

4.6.1 Overcurrent protection device and undervoltage protection

The RX3 electric wheelchair is equipped with an overcurrent protection device. In the event of motor overload, the power supply is automatically interrupted. This serves to protect the motors from damage.

The RX3 electric wheelchair is also equipped with undervoltage protection. If the voltage is too low, the power supply is automatically interrupted. This serves to protect the battery from deep discharge and to protect the remaining electrical components from damage. Recharge the battery immediately if the capacity is low.

4.6.2 Battery holder

The battery holder is located on the side of the RX3 electric wheelchair.

The holder serves to protect the battery. During operation, the battery must be properly installed in the holder, as described in section 5.3 "Inserting or removing the battery" on page 27. Do not disassemble the battery and observe the operating conditions of the battery. Observe the safety instructions related to the battery as specified in section 4.5.1 "Hazards related to the lithium-ion battery" on page 18.

4.6.3 Seat belt

The seat belt serves to ensure a secure hold of the driver on the seat surface of the RX3 electric wheelchair. It is firmly mounted at the rear end of the seat surface. The seat belt can be opened and closed by means of a fastening mechanism. The length must be adjusted so that the driver has a secure hold.

4.6.4 Footrest

During driving with the RX3 electric wheelchair, the driver places their feet on the footrest. This serves to avoid injuries as well as unintended braking.

For use, the footrest must be fully unfolded. Please note that the footrest must be folded up during getting on and off so that it is not stepped on accidentally.

4.7 Warning and information labels

Areas where a potential hazard exists under certain conditions are marked with warning and information labels.

- Do not remove warning and information labels.
- Replace damaged or removed labels immediately.

These warning and information labels are located on the product:

Symbol	Meaning	Symbol	Meaning
	Warning of electrical voltage		Warning of hazards related to battery charging
	Warning of hand injuries		

5 Installation

In this chapter you will find information on the installation of the RX3 electric wheelchair.



NOTE

Safety instructions

Also observe the safety instructions in section 4.4.3 "Installation" on page 18.

5.1 *Unfolding the electric wheelchair RX3*



CAUTION

Risk of crushing injuries to the hands

During unfolding, there is a risk of injury in the lower area of the frame structure. Observe the following safety instructions to avoid this:

- Always place your hands from above onto the seat surface in order to unfold the RX3 electric wheelchair.
- Do not reach underneath the seating area during unfolding.

Proceed as follows to unfold the electric wheelchair RX3:

- 1 Check the packaging for transport damage. Report any transport damage to the packaging to the dealer immediately.
- 2 Grasp the RX3 electric wheelchair at the frame structure and remove it from the packaging..
- 3 Place the RX3 electric wheelchair on a level surface.
- 4 Pull the two sides of the RX3 electric wheelchair outwards so that you can place your hands on the seat surface.
- 5 Place your hands flat from above on the seat surface and press it downwards until you hear it engage.
- 6 Fold both armrests downwards until you hear them engage.
- 7 Fold both handles upwards until you hear them engage (see Figure 4).
- 8 Fold the footrests forward on both sides and secure them on both sides (see Figure 5).



Figure 4: Folding up the handle



Figure 5: Folding up and securing the footrest

5.2 Installing the control unit

Proceed as follows to install the control unit:

- 1 If necessary, turn the rotary knob underneath the armrest to loosen the fixation.
- 2 Slide the control unit into the holder on the armrest (see Figure 6).
- 3 Turn the rotary knob to secure the fixation (see Figure 7).
- 4 Connect the control unit to the electric wheelchair RX3 by plugging the cable into the connector (see Figure 7).



Figure 6: Sliding the control unit into the holder



Figure 7: Installing the control unit

5.3 Inserting or removing the battery

Note that the supplied battery must be fully charged before the first use of the electric wheelchair RX3. Follow the operating instructions in section 7.12 "Charging the battery" on page 37.

The battery is inserted into the holder underneath the seat surface. Proceed as follows to insert or remove the battery:



WARNING

Risk of injury when power supply is switched on

If the power supply is switched on while inserting the battery, there is a risk of injury.

- Make sure that the electric wheelchair RX3 is switched off before inserting or removing the battery.
-

- 1 Position the battery slightly at an angle at the opening of the battery holder.
- 2 Push the battery fully into the battery holder until you feel it engage.
- 3 Press the clip lock downwards and pull the battery out of the battery holder.

6 Transport

In this chapter you will find information on transporting the RX3 electric wheelchair.



NOTE

Safety instructions

Also observe the safety instructions in section 4.4.1 “Transport of the electric wheelchair” on page 17.

6.1 Transporting the RX3 electric wheelchair



NOTE

Use of the wheelchair as a seat

The RX3 electric wheelchair is not suitable for use as a seat in a vehicle during transport. During travel, the driver must always sit on a suitable vehicle seat and fasten the vehicle seat belt.

Proceed as follows to transport the RX3 electric wheelchair:

- 1 Exit the RX3 electric wheelchair as described in section 7.4 “Getting into and out of the RX3 electric wheelchair” on page 33.
- 2 Fold the RX3 electric wheelchair as described in section 6.2 “Folding the RX3 electric wheelchair” on page 28.
- 3 Grasp the RX3 electric wheelchair at a suitable point on the frame when lifting and loading it. Do not hold sensitive components such as the control unit.
- 4 Secure the RX3 electric wheelchair against slipping or tipping during transport in the vehicle. Use suitable lashing straps and fastening points.
- 5 Always transport the RX3 electric wheelchair with minimal shock and vibration. Strong impacts may damage electronic components or the battery.
- 6 After transport, remove any transport securing devices that have been attached.

6.2 Folding the RX3 electric wheelchair

To fold the RX3 electric wheelchair, for example before transport, proceed as follows:

- 1 Switch off the RX3 electric wheelchair as described in section 7.3 “Taking the RX3 electric wheelchair out of operation” on page 33.
- 2 Press the release button (handle) on each handle and fold the handle down (see Figure 8).
- 3 Press the release button (armrest) on each armrest and lower the armrest.
- 4 Fold in the footrest (see Figure 9).
- 5 Grasp the frame from the outside on both sides and push the sides together so that the RX3 electric wheelchair is folded.



Figure 8: Functional components

- | | |
|----------------------------|---|
| 1. Footrest joint | 4. Release button (armrest) |
| 2. Control unit holder | 5. Operating mode switch (automatic/manual) |
| 3. Release button (handle) | |



Figure 9: Folding in the footrest

6.3 *Separate transport of the battery*

In connection with lithium-ion batteries, hazards may arise due to sparking or short circuits. For longer transport routes, transport the battery separately. Proceed as follows:

- 1 Remove the battery from the holder as described in section 5.3 “Inserting or removing the battery” on page 27.
- 2 Store the battery in a shock-resistant transport box.
- 3 Secure the transport box against slipping or tipping during transport in the vehicle. Use suitable lashing straps and fastening points.
- 4 Always transport the battery with minimal shock and vibration. Strong impacts may damage the battery.
- 5 Protect the battery from direct sunlight as well as from wetness and moisture or excessively low temperatures during transport. Observe the information in section 3.2 “Operating conditions” on page 12.
- 6 After transport, remove any transport securing devices that have been attached.

6.4 *Transporting the RX3 electric wheelchair by air*

Travelling with a battery-powered wheelchair is subject to international dangerous goods regulations. In order to travel by air with the RX3 electric wheelchair, proceed as follows:

- 1 Inform your airline about the transport of the RX3 electric wheelchair. This is done already when booking the flight. Providing technical data such as dimensions, weight or information about the battery is required. This information can be found in Chapter 3 “Technical data” on page 12.
- 2 Have the relevant documents ready before starting the journey. These include:
 - the safety data sheet of the battery (MSDS; material safety data sheet)
 - confirmation that the battery complies with the test requirements according to the UN Manual of Tests and Criteria, Part III, subsection 38.3. Both documents can be found in the download section of the website (reizberg.eu) or can be requested from your specialist dealer.
- 3 Remove the battery from the holder before starting the journey, as described in section 5.3 “Inserting or removing the battery” on page 27.
- 4 Protect the battery terminals against possible short circuit. For this purpose, cover the terminals.
- 5 Store the battery in a suitable protective bag.
- 6 Transport the battery in your hand luggage.

7 Operation

In the following sections you will find information on operating the RX3 electric wheelchair.



NOTE

Control elements

The control elements referred to in the text are explained in Chapter 2 “Product description” on page 6.

7.1 Safety instructions before setting off



WARNING

Irregular driving behaviour

Risk of injury due to irregular driving behaviour

- Stop operating the electric wheelchair immediately if you notice unusual or irregular driving behaviour. This includes, for example, sudden uncontrolled movements or deviating braking behaviour.
- Do not continue to control the RX3 electric wheelchair via the control unit and switch off the RX3 electric wheelchair.

Familiarise yourself with the RX3 electric wheelchair and its control elements before operating and controlling it independently. Practise the following movements with a healthcare professional until you are familiar with the functions independently, competently and safely:

- driving forwards
- driving backwards
- overcoming obstacles
- turning
- braking

Observe the following safety instructions before setting off:

- Make sure that you have read these Instructions for Use completely and understood the safety instructions contained therein.
- Familiarise yourself with the surroundings and watch out for possible hazards.
- Do not drive when overtired or under the influence of substances or medication that impair your visual perception, coordination ability or judgement.
- Do not drive at night or in poor visibility conditions unless the RX3 electric wheelchair is equipped with lighting in accordance with road traffic regulations.
- Carry out an inspection of the RX3 electric wheelchair for visible damage and proper condition.
- Familiarise yourself with local pedestrian traffic regulations. Pay particular attention to this when travelling abroad.

7.2 Switching on the RX3 electric wheelchair

Proceed as follows to switch on the RX3 electric wheelchair:

- 1 Make sure that the joystick is in its original position. Do not move the joystick while switching on the RX3 electric wheelchair.
- 2 Press the on/off button on the control unit (see Figure 10).
→ The information display lights up.

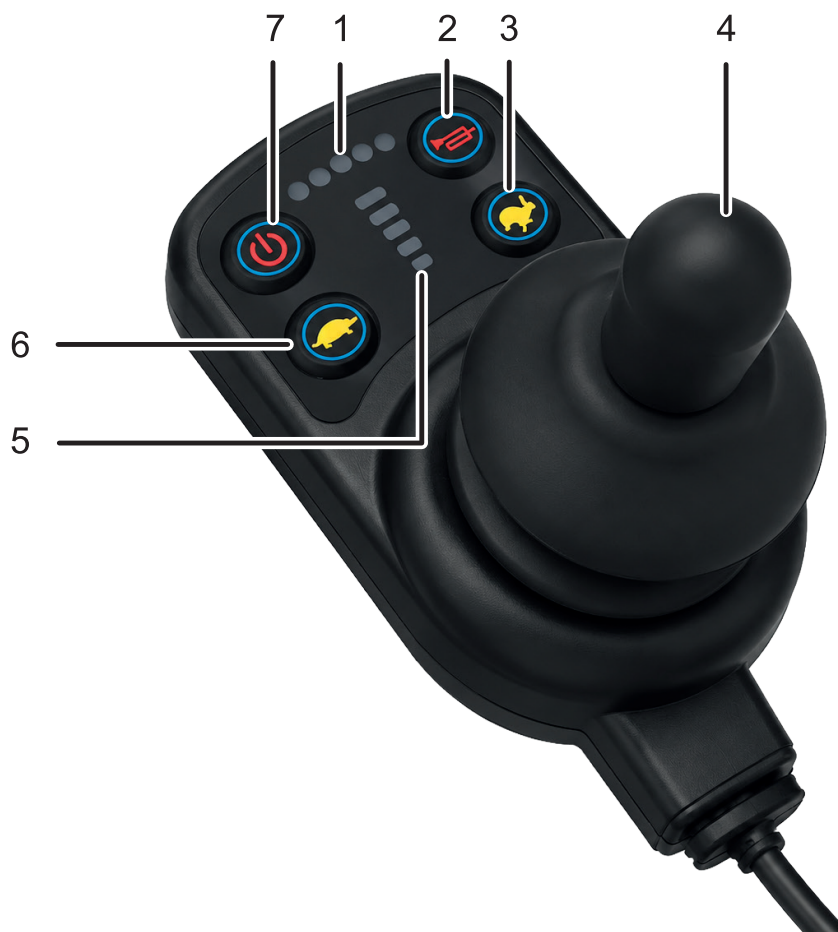


Figure 10: Control unit

- | | |
|--|---------------------------------------|
| 1 LED indicator for battery charge level | 5 LED indicator for speed level |
| 2 Horn button | 6 Button for reducing the speed level |
| 3 Button for increasing the speed level | 7 On/off button |
| 4 Joystick | |

7.3 Switching off the RX3 electric wheelchair

Switch off the RX3 electric wheelchair when it comes to a standstill, even if it is only a short stop. This is necessary to prevent accidental contact with the joystick and to avoid sudden and unexpected movement of the RX3 electric wheelchair.

Proceed as follows to switch off the RX3 electric wheelchair:

Press the on/off button on the control unit (see Figure 10).

→ The information display goes out.

→ The RX3 electric wheelchair is switched off.

7.4 Getting into and out of the RX3 electric wheelchair

Consult your healthcare professional regarding the safest way to get in and out, how to position your body and where best to support yourself.

Ask for assistance until you are able to get in and out safely on your own.

Proceed as follows to get into or out of the RX3 electric wheelchair:

- 1 Move the RX3 electric wheelchair as close as possible to the location where you wish to get in or out.
- 2 Switch off the RX3 electric wheelchair.
- 3 Make sure that the brake lever is set to A for automatic mode (see Figure 11).
- 4 Turn the front wheels in the forward direction.
- 5 Fold the armrest upwards.
- 6 Fold the footrest in during entry to avoid stepping on it unintentionally.
- 7 Do not support yourself on the control elements.
- 8 Get into the RX3 electric wheelchair from the side.
- 9 Sit down on the seat cushion as quickly as possible to avoid the risk of tipping or falling.
- 10 Turn your body forwards.
- 11 Fold the footrest downwards.
- 12 Place your feet on the footrest.
- 13 Fold the armrest down.



Figure 11: Brake lever (automatic/manual operation)

7.5 Using the control unit

Operate the respective function button on the control unit to perform the desired action (see Figure 10):

- Press the horn button to sound the horn.
- Press the button to increase the maximum speed in order to increase the maximum speed.
- Press the button to reduce the maximum speed in order to reduce the maximum speed.

7.6 Steering the RX3 electric wheelchair using the joystick



WARNING

Speed reduction in curves

Risk of injury due to excessive speed when driving in curves.

- Reduce the speed before driving into a curve.



WARNING

Risk of collision when reversing

There is a risk of impact or collision when reversing.

- When reversing, make sure that you have a full view of the driving area.
- Reduce the speed when reversing.

Proceed as follows to steer the RX3 electric wheelchair using the joystick:

- 1 Make sure that the brake lever is set to A for automatic mode (see Figure 11).
- 2 Move the joystick forwards to drive forwards.
- 3 Tilt the joystick further to increase the speed.
- 4 Move the joystick to the right or left to drive in the desired direction.
- 5 Move the joystick backwards to reverse. Note that an acoustic signal sounds when reversing.
- 6 Gradually move the joystick back to the vertical position to reduce the speed and come to a stop.

7.7 Driving on inclines

Proceed as follows to drive the RX3 electric wheelchair on an incline:



WARNING

Risk of injury when driving on inclines

Improper behaviour when driving on inclines may lead to injuries.

Observe the following safety instructions to avoid accidents:

- Do not drive on inclines with a gradient of more than 9°.
- Always drive in the direction of the incline (uphill or downhill), not across the incline.
- Do not turn on an incline.
- Do not drive on inclines in wet conditions, frost or snow.
- Pay attention to changes in balance and centre of gravity.

- 1 Lean your upper body slightly forwards when driving uphill.
- 2 Press your upper body slightly backwards against the backrest when driving downhill.

7.8 Overcoming obstacles

The RX3 electric wheelchair can overcome obstacles of up to 30 mm, such as door thresholds. When driving over obstacles, there is a risk of injury due to wheel blockage, tipping or falling. It is therefore recommended to remove or bevel door thresholds in the living area. In some cases, the installation of a ramp may be necessary.

Proceed as follows to overcome an obstacle:

- 1 Carefully and thoroughly check the area to be crossed.
- 2 Reduce the speed.
- 3 Lean your upper body slightly forwards when driving onto the obstacle.
- 4 Press your upper body slightly backwards against the backrest when driving off the obstacle.

7.9 Lifting the RX3 electric wheelchair using a lifting platform

Proceed as follows to move the RX3 electric wheelchair using a lifting platform:

- 1 Drive slowly onto the platform.
- 2 Switch off the RX3 electric wheelchair.
- 3 Make sure that the operating mode lever is set to A for automatic mode (see Figure 11).
- 4 Ensure a stable position without any possible movement.
 - The platform can now be raised or lowered.

7.10 Manually pushing the RX3 electric wheelchair

Proceed as follows to operate the RX3 electric wheelchair in manual mode:



WARNING

Risk of injury in manual mode

Incorrect behaviour during operation in manual mode may lead to injuries. Observe the following safety instructions to prevent this:

- Never switch to manual mode without an accompanying person.
 - Do not park the RX3 electric wheelchair on inclines in manual mode.
 - Do not drive uphill or downhill in manual mode.
 - The accompanying person and the driver must behave cooperatively and communicate clearly.
-

- 1 Brake until the RX3 electric wheelchair has come to a complete stop.
- 2 Set the brake lever to M for manual operation (see Figure 11).
 - The RX3 electric wheelchair can now be pushed manually by an accompanying person.

7.11 Behaviour in the event of a malfunction

In the event of a malfunction (e.g. electromagnetic interference), proceed as follows:

- 1 Stop the RX3 electric wheelchair if possible.
- 2 Switch off the product.
- 3 Move the RX3 electric wheelchair away from the environment of the suspected source of interference.
- 4 After switching it on again, check whether the RX3 electric wheelchair is functioning normally.
- 5 If the problem persists, contact your dealer.

7.12 Charging the battery



NOTE

Damage to the product during the charging process

Incorrect behaviour during charging may result in damage to the battery.

Observe the following instructions to avoid this:

- Do not exceed the maximum charging time of 8 hours.
- Only charge the battery while you are not using the RX3 electric wheelchair.
- Only use the original accessories supplied for charging.

Proceed as follows to charge the battery:

- 1 Switch off the RX3 electric wheelchair.
- 2 Press the clip fastener on the battery holder downwards and pull the battery out of the battery holder.
- 3 Insert the charging cable into the charging port on the battery.
- 4 Plug the charger's mains cable into the socket.
- 5 The indicator light on the charger lights up blue.
- 6 Charge the battery until the indicator light on the charger lights up green. The charging process takes 6 to 8 hours.
- 7 After charging, immediately disconnect the mains cable from the socket.
- 8 Then remove the charging cable from the battery.
- 9 Position the battery slightly at an angle at the opening of the battery holder.
- 10 Push the battery fully into the battery holder until you feel it engage.
→ The RX3 electric wheelchair is ready for operation again.

8 Troubleshooting

In the following chapter you will find notes and instructions for action in the event of an error or malfunction during operation.



CAUTION

Maintenance work only by qualified specialist personnel

Improper fault rectification may result in injuries or damage to the RX3 electric wheelchair.

- Maintenance work for fault rectification, such as checking electrical connections, must only be carried out by qualified specialist personnel.



NOTICE

In the event of a malfunction or error, only the on/off button on the joystick remains functional.

Malfunctions are indicated on the display of the electronic control unit by a flashing warning symbol and a specific error code. Depending on the error code, a different number of acoustic signals is emitted. The following table provides initial assistance for fault rectification.

Error code / acoustic signals	Cause	Fault rectification
E1/ 1 acoustic signal	Battery is almost empty	1 Charge the battery for at least 30 minutes, see section 7.12 “Charging the battery” on page 37. 2 If the error persists, please contact the specialist dealer.
E2/ 2 acoustic signals	Fault in the left motor or motor cable	1 Check whether all cables are properly connected (right motor cable on the left motor and left motor cable on the right motor). 2 If the error persists, contact the specialist dealer.
E3/ 3 acoustic signals	Fault in the left elec- tromagnetic brake	1 Check whether all cables are properly connected. 2 If the error persists, contact the specialist dealer.
E4/ 4 acoustic signals	Fault in the right mo- tor or motor cable	1 Check whether all cables are properly connected (right motor cable on the left motor and left motor cable on the right motor). 2 If the error persists, contact the specialist dealer.
E5/ 5 acoustic signals	Fault in the right electromagnetic brake	1 Check whether all cables are properly connected. 2 If the error persists, contact the specialist dealer.
E6/ 6 acoustic signals	Fault in the electronic control unit	Inspection of the electronic control unit is required. This should be carried out by the specialist dealer or authorised specialist personnel.
E8/ 8 acoustic signals	Fault in the joystick	Inspection of the electronic control unit is required. This should be carried out by the specialist dealer or authorised specialist personnel.

Error code / acoustic signals	Cause	Fault rectification
E9/ 9 acoustic signals	Fault in the left motor (Hall sensors)	1 Check whether all cables are properly connected. 2 If the error persists, contact the specialist dealer.
EA/ 10 acoustic signals	Fault in the right motor (Hall sensors)	1 Check whether all cables are properly connected. 2 If the error persists, contact the specialist dealer.
Eb/ 11 acoustic signals	No voltage output to the brake or short circuit in the brake	1 Move the joystick slightly. 2 If the error persists, contact the specialist dealer.
	Steuerknüppel nicht in Mittelstellung	1 Move the joystick to the centre position. 2 If the error persists, contact the specialist dealer.

9 Maintenance and cleaning

In the following chapter you will find information on maintenance, servicing and cleaning of the RX3 electric wheelchair.

9.1 General information

Observe the following general instructions regarding maintenance and servicing of the product:



WARNING

Risk of personal injury and material damage due to improper maintenance

Mechanical and electrical hazards may occur during maintenance work.

- Maintenance work may only be carried out by appropriately trained and authorised persons.
- Additionally observe the information in this section and in section 4.5 “Hazards during operation and maintenance” on page 18.

Carry out a visual inspection of all components of the product before each use.

Pay particular attention to missing parts and damage.

Also observe the information in Chapter 8 “Troubleshooting” on page 38 for fault finding and fault rectification.

For replacement parts or additional accessories, contact your authorised dealer.

9.2 Cleaning and care

Keep the RX3 electric wheelchair clean in order to ensure trouble-free operation and a long service life.



WARNING

Risk of injury due to electric shock

There is a risk of injury from electric current during cleaning.

- Switch off the RX3 electric wheelchair before cleaning it.

Observe the following instructions for cleaning:

- Switch off the RX3 electric wheelchair before cleaning it.
- Use clean and soft paper or a cloth for cleaning. The use of medical cleaning alcohol is permissible (maximum alcohol content 75 %).
- Clean the seat cushion and backrest every 6 months. To do this, remove the seat cushion and backrest and clean both with a warm soap solution. Allow the seat cushion and backrest to dry completely after cleaning.
- Never clean the RX3 electric wheelchair with water.
- Never clean the RX3 electric wheelchair with a high-pressure cleaner.

9.3 Maintenance schedule

Carry out the maintenance work at the specified intervals. If problems or abnormalities occur during an inspection, please contact the specialist dealer or qualified specialist personnel.

Interval	Activity	Responsibility
Daily	Check the control elements for proper function and condition: - control panel - joystick	Driver / accompanying person / healthcare professionals
	Check the protective devices for presence and proper function: visual inspection of the battery holder and the battery itself	
Weekly	Check electrical components for corrosion and wear.	
Quarterly	Check all components for damage, deformation, corrosion, cracks in welded/soldered joints and secure fit (including screw connections, cables, electrical connections).	
	Check electrical cables and connectors and have them replaced in good time if necessary.	
Semi-annually	Check the proper functioning of the brakes.	
	Check the proper functioning and condition of the wheels and bearings (including anti-tip wheels).	
If required	Have the motors, wheels and the electronic control unit serviced.	Specialist dealer / qualified specialist personnel

9.4 Re-use / Reprocessing

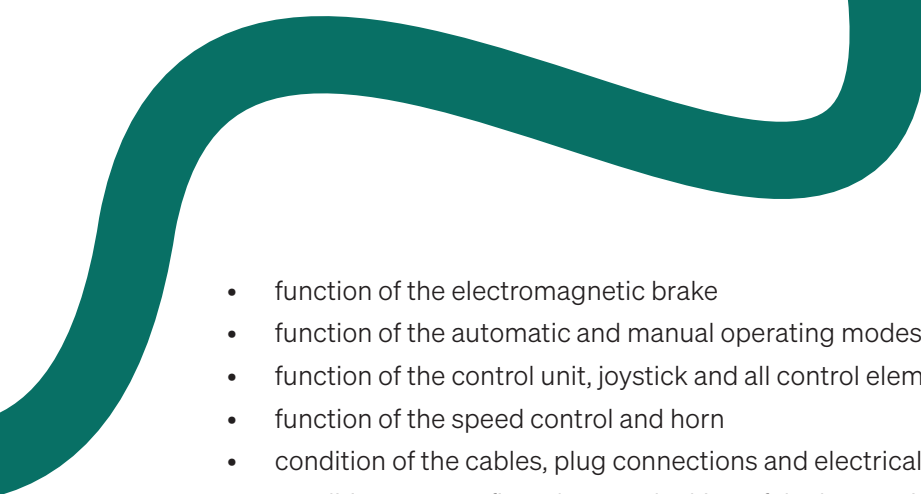
The RX3 electric wheelchair is generally suitable for re-use by further users, provided that professional cleaning, disinfection and a safety-related inspection are carried out before it is passed on.

Before each re-use, the RX3 electric wheelchair must be fully cleaned and disinfected. Particular attention must be paid to the seat cushion, backrest, armrests, handles, control elements, control unit, joystick, footrests, frame, wheels and all frequently touched surfaces.

Before cleaning, the RX3 electric wheelchair must be switched off. The battery must be removed or safely disconnected from the system. Electrical components, plug connections, charging ports, battery and control unit must not be cleaned with water or directly moistened.

In addition, a complete visual and functional inspection must be carried out before each re-use. In particular, the following points must be checked:

- frame and folding mechanism for damage, cracks, deformation or corrosion
- safe function of the folding mechanism and all locking devices
- condition and secure fit of the seat cushion, backrest, armrests and footrests
- function and condition of the seat belt
- condition and smooth running of the front wheels, rear wheels and anti-tip wheels

- 
- function of the electromagnetic brake
 - function of the automatic and manual operating modes
 - function of the control unit, joystick and all control elements
 - function of the speed control and horn
 - condition of the cables, plug connections and electrical connections
 - condition, correct fit and secure locking of the battery in the battery holder
 - condition of the charger and charging cables
 - visible damage, corrosion or unusual wear on electrical components
 - legibility and completeness of all labels, warning notices and product markings

Before re-use, the battery must be checked for external damage, secure fit, correct locking and proper function. Damaged, deformed, leaking or unusually heated batteries must not be used.

Damaged, worn or safety-relevant parts may only be replaced with original spare parts. Repairs to motors, battery, charger, control unit, joystick, brakes or electrical components may only be carried out by the specialist dealer or suitably qualified specialist personnel.

The RX3 electric wheelchair may only be passed on to another user once safe function has been confirmed and there are no remaining safety-relevant defects.

10 Disassembly and disposal

In the following chapter you will find information on the disassembly and disposal of the product.



CAUTION

Risk of injury due to improper disassembly and disposal

Improper disassembly may lead to injuries, for example due to electric current.

- Disassembly work may only be carried out by safety-trained specialist personnel.
- Wear suitable personal protective equipment.
- Switch off the RX3 electric wheelchair before carrying out disassembly work.

10.1 Disassembly

Proceed as follows to disassemble the RX3 electric wheelchair or individual components:

- 1 Switch off the RX3 electric wheelchair and remove the battery as described in section 5.3 “Inserting or removing the battery” on page 27.
- 2 Discharge any stored residual energy if necessary.
- 3 Disassemble the product or its assemblies professionally and in an environmentally responsible manner using suitable tools into its individual parts.

10.2 Disposal



NOTE

Environmental hazards due to improper disposal

Improper disposal may cause hazards to the environment.

- Have electrical waste and electronic components disposed of by authorised specialist companies.
- Have the lithium-ion battery disposed of by authorised specialist companies. You may also return the battery to any specialist dealer from whom you purchased it.
- In case of doubt, obtain information on environmentally responsible disposal from local authorities or waste disposal specialists.

Clean and dispose of the individual parts properly and in an environmentally friendly manner. Observe all statutory and operational regulations.

Send disassembled components for recycling:

- Scrap metallic residual components.
- Send plastic parts for recycling.
- Dispose of remaining components sorted according to material composition.