Instructions for Use
Model S 960-2

VOLKER

# Help

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# Version, Imprint, Identification Plate

**Instructions for use G48**
**Version 1.1 (October 20, 2006)**
**for hospital bed model S 960-2**
**since year of manufacture April 2005**



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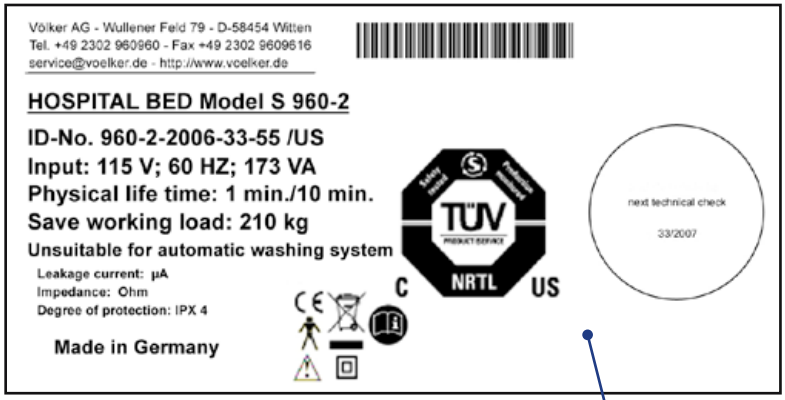
We reserve the right to make technical changes.

The content of this document is subject to change without notice.

Customers are advised to contact their sales representative before placing an order.

## Identification plate




The identification plate is located on the inside, below the head board.

Move the back section up to read the identification plate.

For additional information on the identification plate, please refer to Appendix 🕮 50.

# Table of Contents

# Preface

We thank you for selecting the Völker hospital bed.

We also appreciate the trust you have put in our company and our products with your purchase decision. We understand that your selection comes after careful consideration of the requirements you have for hospital beds, based on your previous experience.
When you chose the Völker hospital bed, you recognized that it offeres you superior value.

The Völker hospital bed has gained international recognition for being an extremely innovative piece of medical equipment. Their unique design, developed by Völker from scratch, is not the only reason they are so well regarded. Customers also value the many product advantages, which are continually being evaluated and improved for their practicality in use. The design is optimized to increase the patient's comfort, and to make daily nursing much easier.

All hospital beds provide quality to their users to some degree, but only Völker hospital beds are designed around concepts for the future.

Thus, Völker hospital beds not only look good from the outside, but are expertly designed on the inside too, with functions adjusted mechanically or by electronically controlled motors.

These beds are highly sophisticated, and we want our customers to be informed users so that they can accept the responsibility for proper use with appropriate, diligent care. For this reason, we ask the user to please read the enclosed instructions carefully, to become fully informed about the handling and use of all functions of this product.

We hope that your Völker hospital beds will meet your every expectation.

Heinrich Völker
CEO - Völker Aktiengesellschaft

# Notes and Precautions

This chapter describes the intended use and the general precautions and restrictions to be observed when using the Völker hospital bed.

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### General notes

Thank you for purchasing a Völker hospital bed. This hospital bed is manufactured according to national and international norms and standards, and incorporates state-of-the-art technology.

Völker hospital beds meet the demands of both safety and functionality. They have been tested against international norms and are designated with the CE seal, confirming that the basic requirements for medical products are met.

Please read the basic safety regulations 🕮 10. We also ask you to familiarize yourself with the additional notes given on the following pages, especially with regard to potential warranty claims.

### Standard model

The S 960-2 standard model can be delivered in several configurations. These are described in section Configurations 🕮 17.

### Copyright protection



### Warranty and liability

Within the limits of the warranty obligations specified by the main contract, Völker AG is liable only for potential defects or omissions, to the exclusion of further claims. Compensation claims are excluded, notwithstanding any legal argument upon which they might be based.

We reserve the right to make technical changes in this service manual without notice, in the course of the continuing development of these hospital beds.

We do not accept responsibility for damages and operational breakdowns that are caused by operating errors and non-compliance with these service instructions.

The indicated accessories will not necessarily correspond to the graphic illustrations.

**Intended use**

The Völker model S 960-2 hospital bed is intended for accommodating patients in caregiving areas of hospitals, clinics and nursing homes.

Patients under the age of 12 years and/or smaller than 146 cm should only use the model S 960-2 hospital bed if the necessary safety measures are employed, such as side rails with side rail pads.

Any other use of the Völker hospital bed that deviates from this intended use is excluded from potential liability.

**Misuse**

Misuse of the hospital bed can lead to potential dangerous situations. Such misuse includes, for example:

- improper operation of electric functions and failure to check the positioning,
- use of the hospital bed for children under the age of 12 years and/or smaller than 146 cm,
- operation of the hospital bed by patients without proper instruction,
- use of electrical appliances in the bed that are incompatible with its safe operation (this is the responsibility of the operator),
- moving the bed by pulling on the electrical cords,
- unplugging electric cords by pulling on the cable,
- using the bed on a sloping surface with an inclination greater than 10 degrees (the bed's brake is designed for a maximum tilt angle of 10 degrees),
- trying to move the bed when the locking mechanism has been engaged,
- using the bed for transporting a patient in an ambulance vehicle,
- overloading the bed beyond the specified safe load-bearing capacity.

⚠ **CAUTION** If an emergency requires the use of the bed for patients under the age of 12 years or smaller than 146 cm, side rails with side rail pads or other necessary safety measures must be employed. These restrictions also apply if the bed is used with weak or deranged patients.

### Regulations

The Völker hospital bed must only be set up, operated and used according to its intended use to be in compliance with the legal regulations for medical products and any relevant issued statutory orders, and to comply with recognized engineering guidelines as well as industry regulations for safety and the prevention of accidents.

A hospital bed must not be operated if it is defective or might put patients, nursing staff or any third party at risk.

### User qualification

This hospital bed should only be operated by trained professionals who have the skill and experience to guarantee proper handling.

### User training

Völker or its representatives will provide basic instruction in the operation of this bed to the nursing staff as required by the customer.

Participation by the nursing staff in such training can be certified by Völker using a form specifically designed for this purpose that includes the participant's name, date and signature.

The nursing staff should familiarize the patients with the use of the hand control prior to unlocking it.

### Additional requirements

Everyone who is involved in starting up, operating or servicing the bed must have read these instructions for use thoroughly, in either the print or digital version.

In order to avoid operating errors and to ensure smooth operation of the bed, the nursing staff must always have access to the following safety guidelines.

⚠ **Safety alert symbol**
**Information marked by this symbol must be read and strictly adhered to!**

⚠ **DANGER** indicates a hazardous situation which, if not avoided, will result in death or serious injury.

⚠ **WARNING** indicates a hazardous situation which, if not avoided, could result in death or serious injury.

⚠ **CAUTION** indicates a hazardous situation which, if not avoided, may result in minor or moderate injury.

***NOTICE*** indicates a property damage message.

### Before initial start-up

Before putting the hospital bed into operation the first time, these instructions for use must have been read thoroughly and understood by the persons responsible for the nursing service.

A performance check must have been carried out prior to the initial use of this hospital bed.

The nursing staff must have attended detailed training in the handling of the bed before they operate it with patients. In addition, they must be made aware of potential hazards that might occur even when the bed is operated properly.

### Prior to and during each use

Prior to and during each use, the operator must ensure that the hospital bed is in proper condition and that the bed is safe to use (function control 📖 28).

### Position of the hospital bed

⚠ **CAUTION "Danger of falling out"**
With unsupervised patients, it is recommended that the bed be set at its lowest position in order to minimize the risk of injury in case the patient falls out of the bed. Otherwise, the height of the bed should be adjusted to accommodate the height of the patient.

### Moving the bed

⚠ **CAUTION** When moving the bed, ensure that the mattress frame is in the lowest position and that the back and leg sections of the mattress frame are completely lowered. Also ensure that the line power cable and power cut-off unit are not dragged along the ground or run over.

### Four castors central braking

**CAUTION "Accident risks"**

Unless the bed is being used to transport a patient, the castors must always be locked, because the bed might be used by a patient for support when getting up or lying down. If the brake is not locked, the bed can move and therefore place the patient at risk. After engaging the central locking brake, the bed should be checked to see whether it is actually secured, that is whether the castor brakes are adequately locked.

### Side rail

**WARNING "Danger of entrapment"**

With patients whose physical or mental condition warrants the use of the side rail in order to protect them from falling out of the bed, the following safety measures must be observed:

- The side rail must be used only by the trained nursing staff.
- Make sure that the side rails – or sections thereof – are either in their fully upright position **and** locked or completely stowed below.
- The operator must ensure that the patient does **not** come into contact with the side rail components when the lying surface is being adjusted with the electrical mechanism. It is likewise important that **no** portion of the body projects through the side rail.
- When the side rails are used for a child or a person whose mental condition warrants their use, the hand control must placed out of the patient's reach. In addition, the use of protective side rail pads is recommended.
- If the above-mentioned safety measures are ignored by the nursing staff, bruising or other injuries might occur if patients get their hands, knees, fingers, feet, shins or hips caught in the bed mechanism.

### Height adjustment

⚠ **DANGER "Danger of getting trapped" between the undercarriage and frame when the bed is lowered"**
When the bed is being adjusted, ensure that no persons or their limbs, bed linens or other objects are located between the frame and undercarriage.

⚠ **DANGER "Danger of movement"**
When any movement of the bed can cause a risk to the patient, all functions of the nurse control have to be locked.

### Side rail spacers

When using side rail spacers, read the separate instruction manual for this accessory. As bed functions are operated, the side rail spacers should be monitored as they move in relation to the side rails.

### Cleaning and disinfection

In order to maintain a consistent functional capability, the hospital bed should be cleaned, disinfected and tested at the soonest possible time following each use, so that it can be reused immediately without risk.

Dangers might arise from improper cleaning or disinfection 🕮 40 of the bed.

### Service/Maintenance

Anyone who is responsible for carrying out maintenance or service on the Völker bed must at least have read the Safety Regulations and the Service Manual and be qualified according to the legal requirements.

After any maintenance or repair has been completed, it is absolutely necessary to check the bed for functional safety (refer to service manual). The bed must be checked to determine whether it can be used without causing damage to the patients, employees or other persons.

A technical maintenance check of the bed must be performed at least once per year and after long periods without operation.

If any damage is detected, such as signs of wear and tear, loose bolts and breaks, the damaged portion must be repaired or replaced immediately.

### Electromagnetic/electrostatic interferences

The Völker S 960-2 hospital bed fulfils the electromagnetic compatibility requirements according to the EU Directive 93/42/EEC concerning medical products. It has also been tested for compliance with the EN 60601-1-2 standard.

# Functional Description

This chapter describes the functions and features of the Völker hospital bed.

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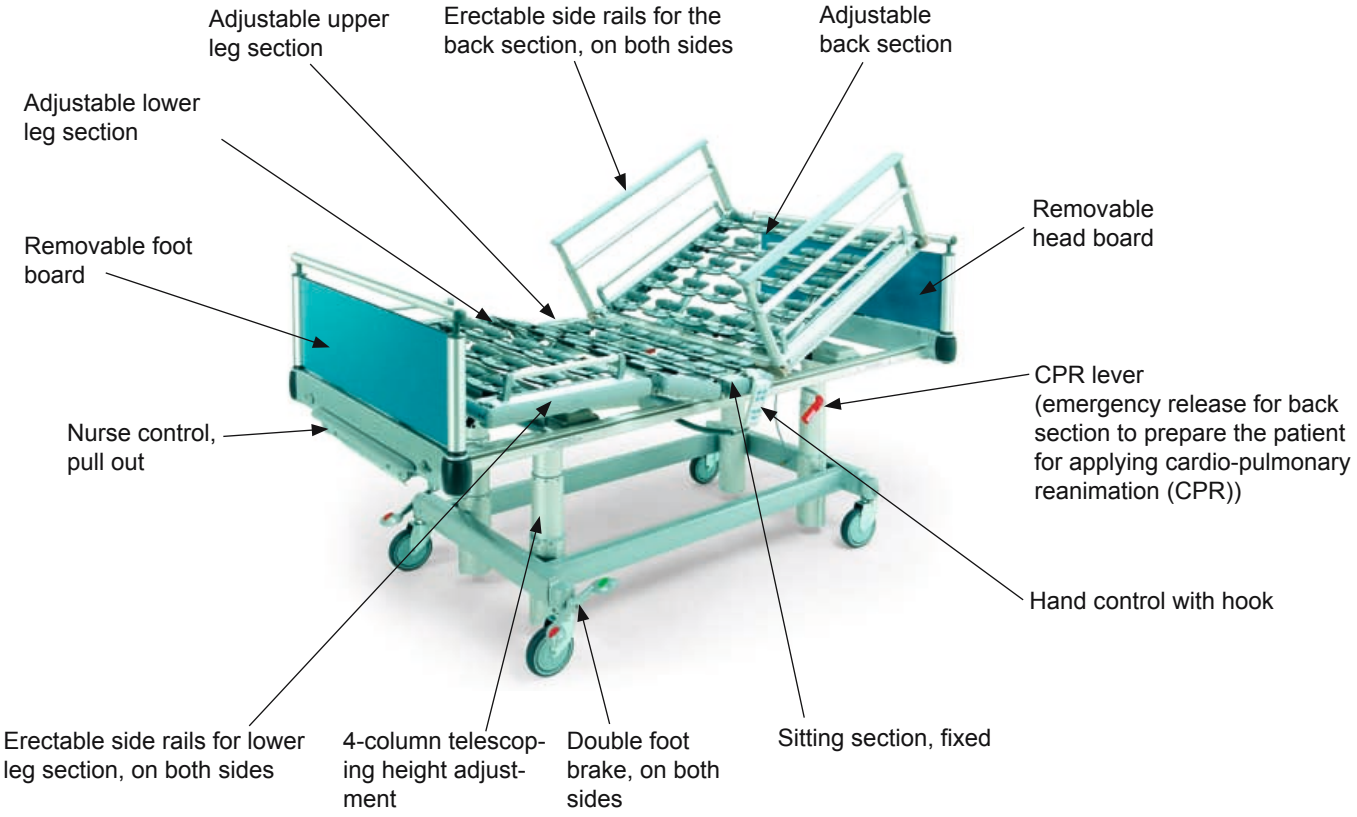
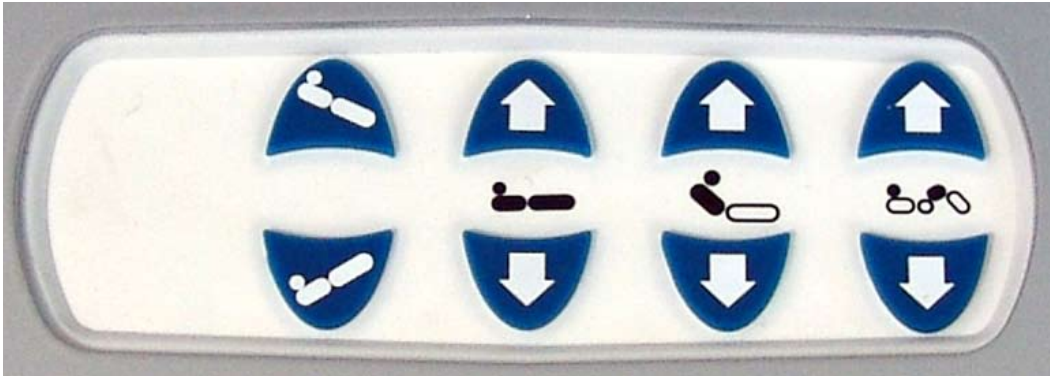

Adjustable upper leg section
Erectable side rails for the back section, on both sides
Adjustable back section
Adjustable lower leg section
Removable head board
Removable foot board
CPR lever (emergency release for back section to prepare the patient for applying cardio-pulmonary reanimation (CPR))
Nurse control, pull out
Hand control with hook
Erectable side rails for lower leg section, on both sides
4-column telescoping height adjustment
Double foot brake, on both sides
Sitting section, fixed

Reverse Trendelenburg position [1]
Trendelenburg position [2]

Height adjustment up/down [3]

Back section up/down

Leg section up/down



⚠ **WARNING** If any of the adjustable sections is raised with the side rails in their full upright position, ensure that no portions of the patient's or anyone else's body project through or lie on the side rail!

[1] Head elevated

[2] Head lowered

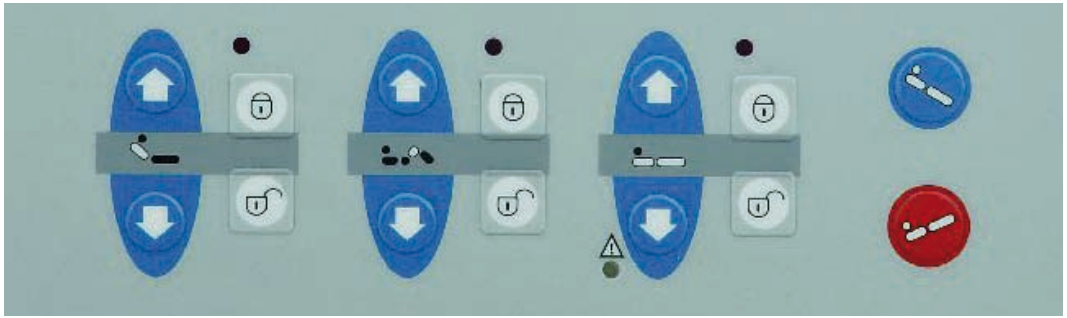
[3] The nurse control can be equipped with country-specific automatic functions (double click).

Rear side:

Nurse control unlocked

Nurse control and hand control are completely locked.

Back section up/down | Leg section up/down | Lying surface up/down | Reverse Trendelenburg position [1] Trendelenburg position [2]



The LED lights up red if the up or down button is pressed while the drive is locked.

Lock corresponding drive.

Unlock corresponding drive.

The LED lights up yellow when lying surface has reached its lowest position.

**WARNING** If any of the adjustable sections is raised with the side rails in their full upright position, ensure that no portions of the patient's or anyone else's body project through or lie on the side rail!

[1] Head elevated; [2] head lowered

# Functional Description | Hand Control with Hook

Back section up

Back section down

Leg section up

Leg section down

Lying surface up

Lying surface down

Reverse Trendelenburg position [1]

Hand control unlocked

Hand control locked

⚠ **WARNING** If any of the adjustable sections is raised with the side rails in their full upright position, ensure that no portions of the patient's or anyone else's body project through or lie on the side rail!

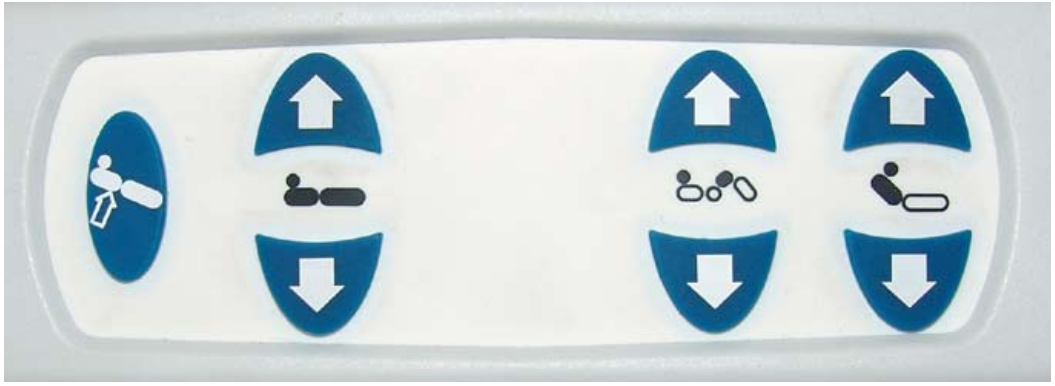
[1] Head elevated

Reverse Trendelenburg position [1]

Lying surface up/down

Leg section up/down

Back section up/down



⚠ **WARNING** If any of the adjustable sections is raised with the side rails in their full upright position, ensure that no portions of the patient's or anyone else's body project through or lie on the side rail!

[1] Head elevated

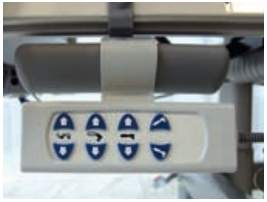
Rear side:

Hand control unlocked

Hand control locked

# Functional Description - Configurations 1/2

The S 960-2 standard model can be delivered in several configurations. These configurations are as follows:

| Configuration | Description |
|---|---|
| Trapeze bar mounting | 1. Single trapeze bar mounting, external. The trapeze bar mounting is located in the middle, attached outside the lying surface (standard).<br>2. Double trapeze bar mounting, internal. The trapeze bar mounting is located at the left and right inner side of the head board (option).<br>The safe working load for the trapeze bar is 75 kg. |
| Hand control | 1. With hook (standard):<br>  |
| Hand control (cont.) | 2. Horizontal on side rail (option):<br>  |
| Nurse control | 1. In storage drawer (standard) or bedding holder (option):<br>  <br>2. Snapped into the side holder (option):<br>  |

# Functional Description - Configurations 2/2

| Configuration | Description |
|---|---|
| Nurse control (cont.) | 3. In its special drawer (option):<br>  <br>4. With individual lock in bedding holder (option):<br>  |
| Castors | The castors are of standard design (150 mm), but some types of customized castors can be delivered. The designs and the diameters can also be varied. This might result in a lifting adjustment range that varies by 20 mm. |

| Configuration | Description |
|---|---|
| Bed extension | Using the pull-out bed extension (option), you can extend the length of the bed by 20 cm. |
| Side rails | The S 960-2 bed can be provided with different types of side rails:<br>Foot part / head part:<br>1. Extendable side rails 34* cm (standard)<br>2. Extendable side rails 40* cm (option)<br>* This dimension refers to the top edge of the side rail up to the lying surface (without mattress). |

All the possible configurations are described in these instructions for use. You will find an overview of the configurations delivered in your bed order specification. If the original order specification is no longer available, please contact Völker customer service. Before contacting us, please note down the Völker ID-No. (see identification plate 🕮 50).

Völker supplies an extensive range of easily installed accessories to provide the greatest possible flexibility. The hospital beds are equipped with holders for accessories such as IV holders or trapeze bars. Urine bottle baskets, universal hooks, standard bars, etc., can be mounted on the accessory bars provided on both sides of the bed.

Further information regarding the accessories can be found in our current brochure or on the internet at www.voelker.de 🕮. Our staff will gladly provide you with more details on the accessories that are available for your bed model.

### Mattresses

To minimize the risk of injury, do not use this bed with mattresses of any size other than those described below. If you decide not to use a Völker mattress, contact a reputable dealer of your choice.

| Size of mattress | Size of mattress frame | Volume weight |
|---|---|---|
| 88 x 200 x 12 cm | 90 x 200 cm | 40-50 kg/m³ |
| 88 x 220 x 12 cm | 90 x 220 cm | 40-50 kg/m³ |
| 98 x 200 x 12 cm | 100 x 200 cm | 40-50 kg/m³ |
| 98 x 220 x 12 cm | 100 x 220 cm | 40-50 kg/m³ |

⚠ **WARNING** The use of mattresses that do not correspond to these specifications will carry a risk of serious injury!

### Use of restraint fastening systems

The use of fastening systems like belts is only allowed when these comply with the regulations of the manufacturer.

When using restraint fastening systems, the side rails must be in their full upright position. In this case, for model S 960-2 the gap in the middle must be secured with an side rail spacer.

⚠ **DANGER** Please take attention of the additional instructions for use for the fixation equipment provided for fastening systems.

It is **stictly** forbidden to move the mattress frame during a fastening process.

The mattress frame must be in the **lowest possible position**.

Deactivate all functions of the mattress frame during a fastening process, and place the hand control unit out of the patient's reach.

This chapter provides information on the preparation of the bed prior to use, including the function control.

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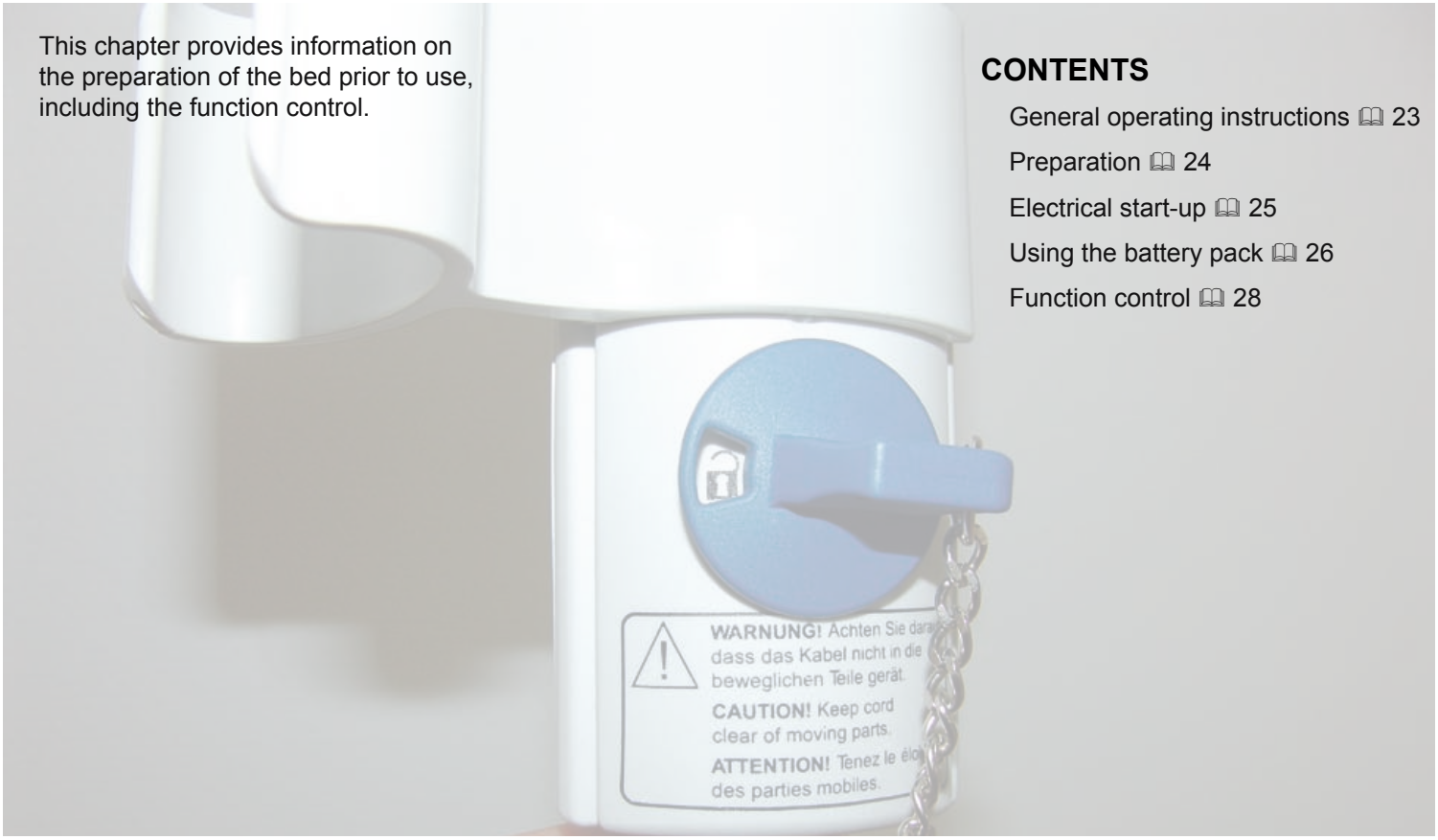


### Power-on time

The maximum power-on time for the bed motor unit function is indicated on the bed (identification plate 🕮 50) and/or in the technical data sheet, with the notation "1 min/10 min" meaning that when any bed function has been operated for 1 minute without interruption, the operation must be paused for 10 minutes, in order to protect the motor.

> ***NOTICE*** If the maximum power-on time of 1 minute is exceeded before the 10 minute waiting period is over, either through separate operations or a longer continuous time period, this can lead to a failure of a motor unit due to safety devices being triggered. The bed will then be shut down for a period of 10 minutes.

### Rechargeable batteries

The batteries in the bed have an electric charge capacity that is equivalent to 3 lifting and lying space adjustment operations, with a working load of 210 kg.

> ***NOTICE*** If the bed is set up at its location without connecting it to the battery charger, energy consumption and self-discharge will lead to the discharge of the battery!
>
> ***NOTICE*** If the battery is totally discharged, it may be sufficiently damaged that early replacement becomes necessary.
>
> ***NOTICE*** In order to achieve a long battery life, proper handling of batteries and the battery charger is absolutely necessary!

To ensure operation of the electrical bed functions at any time, the system should preferably be connected to the line power supply.

### Safety device

The bed is provided with an electronic safety device that prevents the drives from being overloaded.

### Installation conditions

The bed is approved for operation in dry rooms only (Technical Data Sheet). In order for the bed to be operated, a power supply and, if necessary, a sense potential connection is required in the location where the bed is installed.

The bed is movable without auxiliary transport facilities. Unlock the bed's brake if it becomes necessary to move the bed 🕮 31.

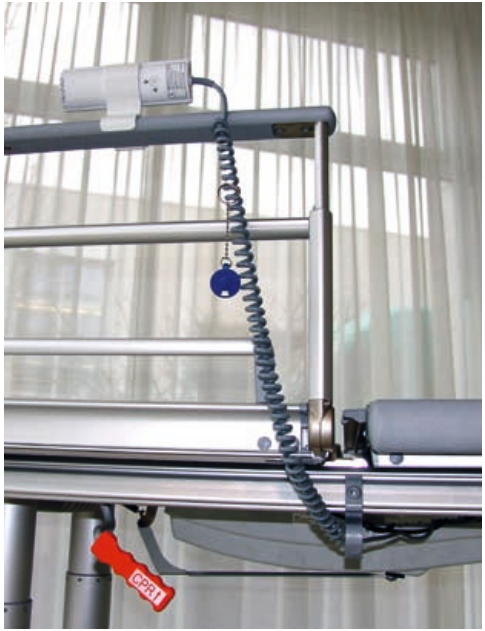
The bed can be moved on solid ground only. It is not permissible to drive the bed over an obstacle higher than 2 cm. The maximum permissible angle of inclination for the path of movement is 10°.

### Mechanical start-up

The head and foot boards provided must be inserted into the corner joints of the bed frame.

### Connecting the hand control

The hand controls must be plugged into the jacks provided. Do not place stress on the coiled cable.



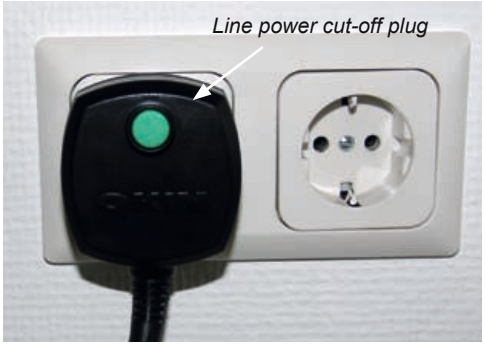
*Arrangement of the hand control coiled cable*

⚠ **WARNING** Make certain that the connection between the line power cut-off and the drive for the lying surface is made correctly!

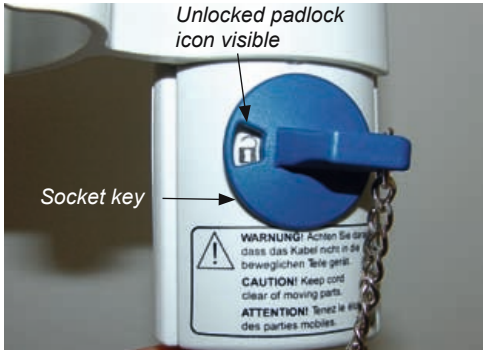
***NOTICE*** Be aware that improper use of the line power cut-off can damage the unit, with the result that the batteries can no longer be charged.

Do not drop the line power cut-off plug. Do not pull or exert excessive strain on any electrical cables or connections. Take care not to run over the line power cable when moving the bed.

1. Connect the line power cut-off plug to a line outlet.




2. Unlock the hand control and the nurse control by means of the socket key, in order to activate their electrical functions.

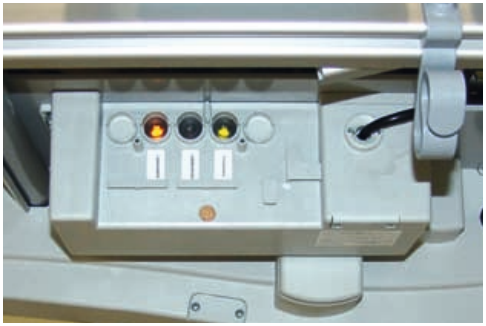


The rechargeable battery pack enables line power-free operation of the bed for at least 3 switch-on cycles.

The LED lights up in three colors:

| | |
|---|---|
| **Green** | Battery pack is connected to the line power. Charging cycle is on. |
| **Orange** | Battery pack is currently being charged. Bed should not be operated free of the line power. |
| **Red** | HAZARDOUS RANGE. Battery pack must be charged. Bed cannot be operated free from the line power. |
| **All LEDs are off** | Battery is completely charged or cut-off and not connected to power: Line power cut-off is activated. No current flow in stand-by mode. |

If a beeping sound is heard, the battery pack needs to be recharged. The beep sound becomes weaker the further the battery pack has been discharged. The battery pack will switch off shortly before total discharge. After the bed has been connected to the line power, press any button in the hand control in order to make it fully functional again. The battery pack starts a charging cycle when it is connected to the line power after each use, or when the charge has dropped too low.



***NOTICE*** If the bed is not connected to the line power for a longer period, the battery pack can become discharged. The level of discharge is dependent on the ambient conditions.

***NOTICE*** During the charging cycles, the battery pack is connected to the line power and is thus being supplied with electricity. The LED shows the charging status of the battery pack during the charging cycle. The circuit breaker is disabled, with electric current flowing to the bed.

⚠ **WARNING** If electromagnetic disturbances due to other appliances are produced in the vicinity of the bed, please refrain from operating these appliances.

In case of transport, the device must always be handled carefully and protected from moisture.

***NOTICE*** This equipment is specified for use at an ambient temperature of 10 °C to 40 °C, relative humidity of 30% to 40% and for barometric pressure of 700 to 1,060 hPa.

⚠ **WARNING** The battery pack should only be replaced by trained personnel from Völker AG.

⚠ **WARNING** A faulty battery pack might begin to produce gas emissions. In rare cases this can cause deformations in the battery pack casing. If this occurs, take the bed out of service immediately and move the bed into a well aired room without any sparking formation (electrical or fire sparks). Contact customer service immediately!

⚠ **WARNING** You should dispose of the battery pack at suitable facilities in order to protect the environment, or you are welcome to return it to the Völker AG.

In order to operate the hand control and the nurse control after switching on the bed, the lock on the function keys must be released 🕮 30.

### Visual check

**Each time before a bed is used, the operator should make sure that:**

1. The bed is externally undamaged.
2. The insulation of the electrical cable is undamaged.
3. The next inspection date has not yet passed (see inspection tag).

⚠ **WARNING** Only beds that are undamaged and within the period covered by the previous inspection may be used.

### Functional check

**Perform a functional check prior to each use of a bed:**

1. Move electrical drives once to their end positions.
2. Check the functioning of all side rails.
3. Check the functional efficiency of the brakes.

If no malfunction is detected, the bed is ready for use.

# Operation

This chapter gives detailed instructions for operating the bed.

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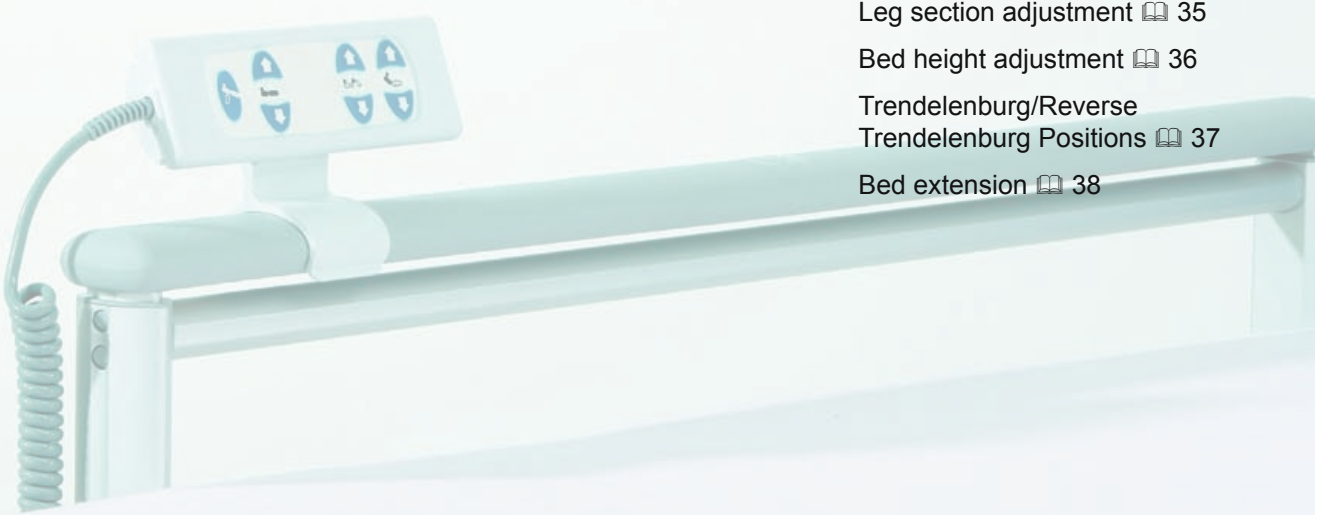


# Operation | Control Lock

By activating the control lock on the hand control or the nurse control, you lock all functions on the respective control pad.

A lock switch is located on the reverse side of the hand control and the nurse control. The lock switch is unlocked (unlocked padlock icon visible) and locked by means of a socket key.

If you can not activate a function of the bed, check if the keys of the hand control or the nurse control are locked.

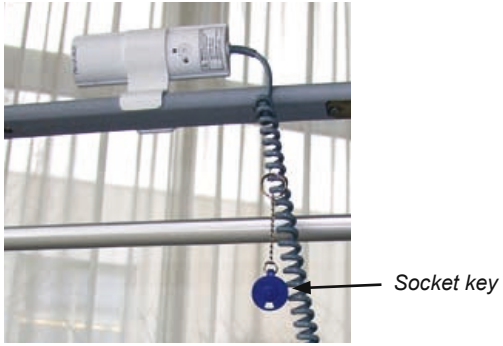
The socket key should be removed from the vicinity of the bed when not in use.

Hand control / nurse control locked

Hand control / nurse control unlocked

The hand control is locked automatically when the nurse control is locked (master lock out)

When the hand control is locked, this has no effect on the function of the nurse control.



# Operation | Central Brake

In order to apply the brake, push the **red side** of the brake pedal. Once the brake pedal is engaged at a 30° angle, the bed is braked and locked.

To move the bed in any direction, bring the brake pedal back to the horizontal position.

In order to move the bed in a straight direction, push the **green side** of the brake pedal. When the brake pedal is engaged at a 30° angle, one castor is locked in a straight direction and assists in steering.

⚠ **WARNING** After the initial start-up or when each time the system is started up anew, the bed might be in an unbraked condition. Operate the brake pedal in order to ensure the brake is applied.

Bed braked



All castors swivel

Straight steering position (one castor locked in a straight direction)

### Setting up a side rail

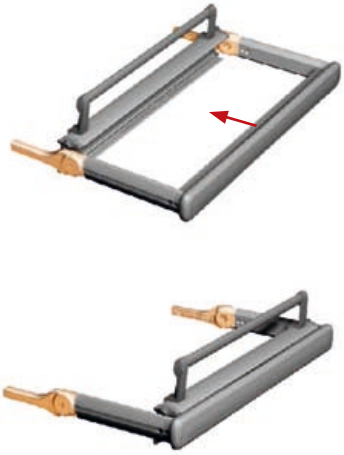
1. In order to engage a side rail, pull the side rail horizontally to the side (away from the bed) as far as it will go, then fold it upward.
2. In order to adjust the height of the side rail, pull the telescoping portion upward until it snaps in.

### Folding down a side rail

1. In order to fold down the side rail, press both buttons on the out-sides of the frame, just above the cross bar, so that the rail can telescope to its lower position.

2. Locate the side rail release bar (marked „Press“) located between the lowest point of the two side rail uprights. Press the release bar down, fold the side rail outward until it is parallel to the floor.

3. Push the side rail in completely under the lying surface.



One or more side rails can be used as required in order to safeguard the bed user.

Folding up all four side rails provides the user of the bed with maximum protection.

***NOTICE*** Because of their exceptional stability, the side rails can also be used to hold bed linens (maximum 15 kg), or they can be used as an additional support surface for clinically desired applications as, for example, in carrying out physiotherapeutic treatment.

⚠ **WARNING** All staff members who are responsible for handling the side rails must read the following information and proceed accordingly:

- When operating the back, upper leg or lower leg adjustment, height adjustment or side rails, it is important to ensure that the patient does not come into contact with the side rail and that no portion of the body is projecting out through the side rail.
- When the side rails are used for a child or a person whose mental condition warrants their use, the hand control must placed out of the patient's reach. It is the responsibility of the nursing staff to ensure that no health hazards may occur.
- Side rail pads for the side rails are available as an accessory; these provide additional protection against injuries through contact with side rails. The use of these side rail pads is recommended with all persons for whom there is a high risk of injuries caused by unavoidable contacts with the side rails. However, the use of these side rail pads does not relieve the caregiver or patient from exercising reasonable care when operating the bed.
- When using side rails, they must always be either locked in their full upright position by snapping them into place, or be fully stowed in their bottom location.
- The side rails should always be held at the respective section ends using both hands, and guided to the full upright or stowed position.

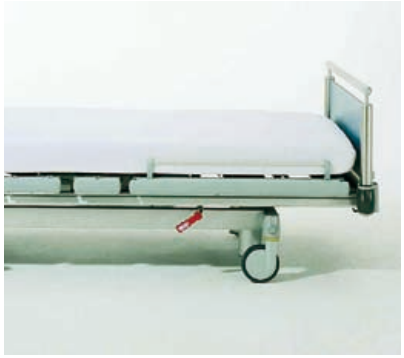
# Operation | Back Section Adjustment

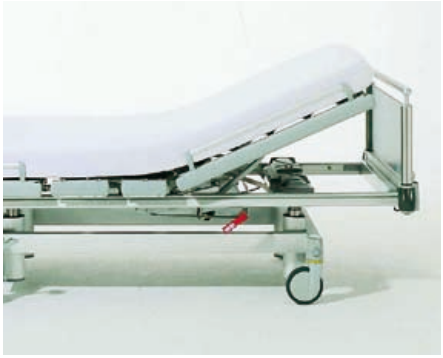
The back section can be adjusted by means of the hand control or the nurse control.

If necessary, unlock the back section using the nurse control 🕮 30.

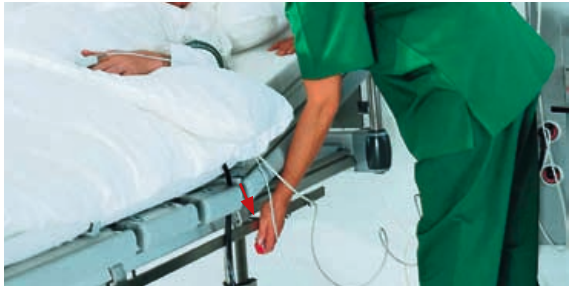
The back section of the lying surface can be adjusted to a tilt angle of up to 70°.

⚠ **WARNING** When the back section is raised with the side rails in their full upright position, ensure that no portions of the patient's or anyone else's body project through or lie on the side rail!





CPR lever - an emergency release for back section to prepare the patient for applying CPR (cardio-pulmonary reanimation):



Back section up/down

*Nurse control*

Back section up/down

*Hand control*

# Operation | Leg Section Adjustment

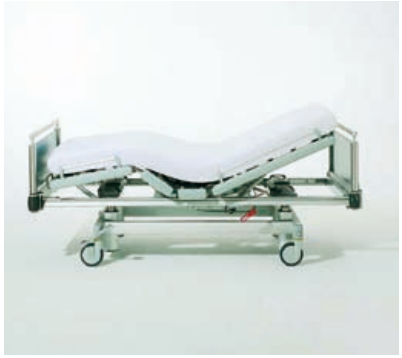
The leg section can be adjusted by means of the hand control or the nurse control.

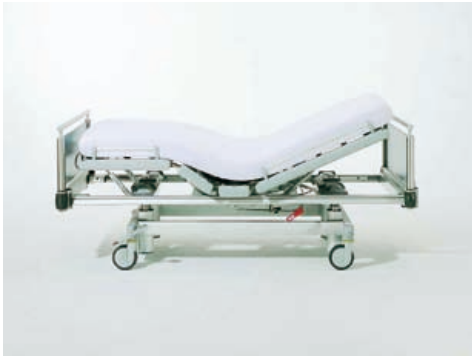
If necessary, unlock the back section using the nurse control 📖 30.

The leg section of the lying surface can be adjusted to a tilt angle of up to 62°.

⚠ **WARNING** When the leg section is raised with the side rails in their full upright position, ensure that no portions of the patient's or anyone else's body project through or lie on the side rail!

Please note that the lower leg section can be adjusted by pulling the foot end mattress holder.





Leg section up/down

*Nurse control*

Leg section up/down

*Hand control*

# Operation | Bed Height Adjustment

The entire lying surface can be adjusted by means of the hand control or the nurse control.

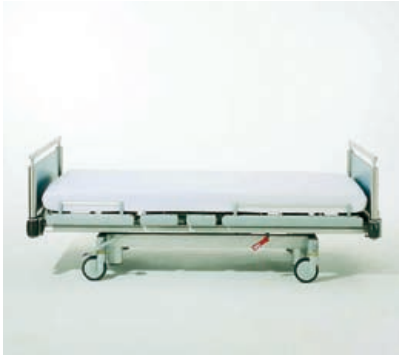
If necessary, unlock the back section using the nurse control 🕮 30.

The lying surface can be adjusted from 40 cm up to 80 cm height.

⚠ **WARNING** We recommend that the bed be lowered to its lowest level in order to protect the patient from the danger of falling out of bed!

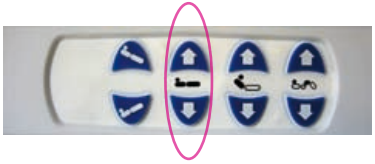
⚠ **DANGER** Before lowering the bed, it must be ensured that no persons, limbs or bed linens are located between the lying surface and the undercarriage. Before anyone gets into or out of the bed, make certain that the bed stands firmly on the ground (castors in locked position)!

⚠ **WARNING** When a height adjustment is being made with the side rails in their fully upright position, ensure that no portions of the patient's or anyone else's body project through or lie on the side rail!



Lying surface up/down

Lying surface up/down



*Nurse control*

*Hand control*

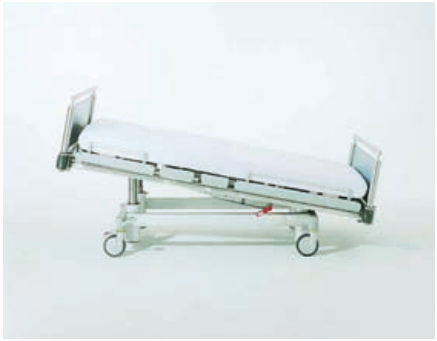
# Operation | Trendelenburg/Reverse Trendelenburg Positions

Trendelenburg positioning can be operated only from the nurse control. Reverse Trendelenburg positioning is operated by either the hand control or the nurse control.

If necessary, unlock the nurse control 🕮 30.

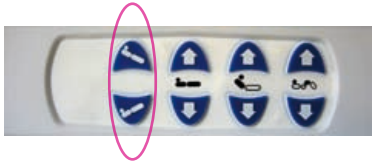
The Trendelenburg/Reverse Trendelenburg position can be set up at a tilt angle of up to 12°.

⚠ **CAUTION** If the lifting function fails or there is no connection to the line power supply or if the battery is completely dead, the Trendelenburg function can no longer be executed. If necessary, the patient must then be moved to another bed.



Reverse Trendelenburg position [1] Trendelenburg position [2]

Reverse Trendelenburg position [1]



*Nurse control*

*Hand control*

[1] Head elevated;
[2] head lowered

# Operation | Bed Extension

The bed can be extended up to 20 cm by pulling out the bed extension (option).

To pull out the bed extension, press down on both release knobs.

# Cleaning and Disinfection

This chapter provides information on the cleaning and disinfection of the bed.

**CONTENTS**

# Cleaning and Disinfection 1/2

**Wipe and spray disinfection**

The wipe and spray disinfectants listed in the DGHM List dated Feb. 4, 2002 (Deutsche Gesellschaft für Hygiene und Mikrobiologie = “German Society for Hygiene and Microbiology”) can be used at the concentrations recommended in the corresponding manufacturer’s instructions. The instructions below should be followed when using cleaning agents and/or disinfectants.

> ***NOTICE*** The use of solvents is **not** permitted.
>
> ***NOTICE*** Do **not** use abrasive cleaners, scouring pads or similar cleaning aids.
>
> ***NOTICE*** Do **not** use organic solvents such as halogenated/aromatic hydrocarbons or ketones.

Depending on the level of contamination, we advise that the bed should be cleaned with a damp cloth or the like. The following guidelines should be observed regarding cleaning and disinfecting agents:

- The working solutions should be freshly prepared as a general rule.
- The concentrations used should be neither higher nor lower than those given in the list. The so-called "shot method" should not be used under any circumstances. Under no circumstance should someone using a disinfectant follow their own judgement to add a detergent such as a soap or detergent substance (leads to soap failure).
- There is a risk of fire or explosion from alcoholic spray disinfectants when these are used over large areas.
- They may not contain any corrosive or caustic substances.
- They may not contain substances that alter the characteristics of surface or the properties of plastic or synthetic materials.
- They may not affect the properties of lubricants.
- The water pH may not fall outside the range of 6-8.
- Water hardness may not exceed 0.9 mmol/L (to 5° d).

  Fully desalinated water may not be used.

| | |
|---|---|
| Chloride | < 100 ppm |
| Silicate as $SiO_2$ | < 15 ppm |
| Iron | < 0.05 ppm |
| Manganese | < 0.01 ppm |
| Copper | < 0.05 ppm |

# Cleaning and Disinfection 2/2

It does not relieve product users from the responsibility of carrying out their own tests and trials, since conditions such as water hardness can differ by location. No legally binding guarantee of any kind is granted or can be assumed.

Völker AG accepts no liability for possible damage to surfaces arising from the use of unsuitable cleaning agents or disinfectants, from the use of incorrect concentrations or from the unsatisfactory care of the bed.

⚠ **WARNING "Electric shock / fire hazards and functional deficiency"**

Generally, the battery charger must be disconnected from the bed when it is being cleaned and disinfected.

The plug and socket of the hand control are waterproof only when they are securely connected. If the plug is disconnected, neither unit is waterproof, so that the plug then must be protected against ingress of moisture.

**Spray lances and automatic washing system**

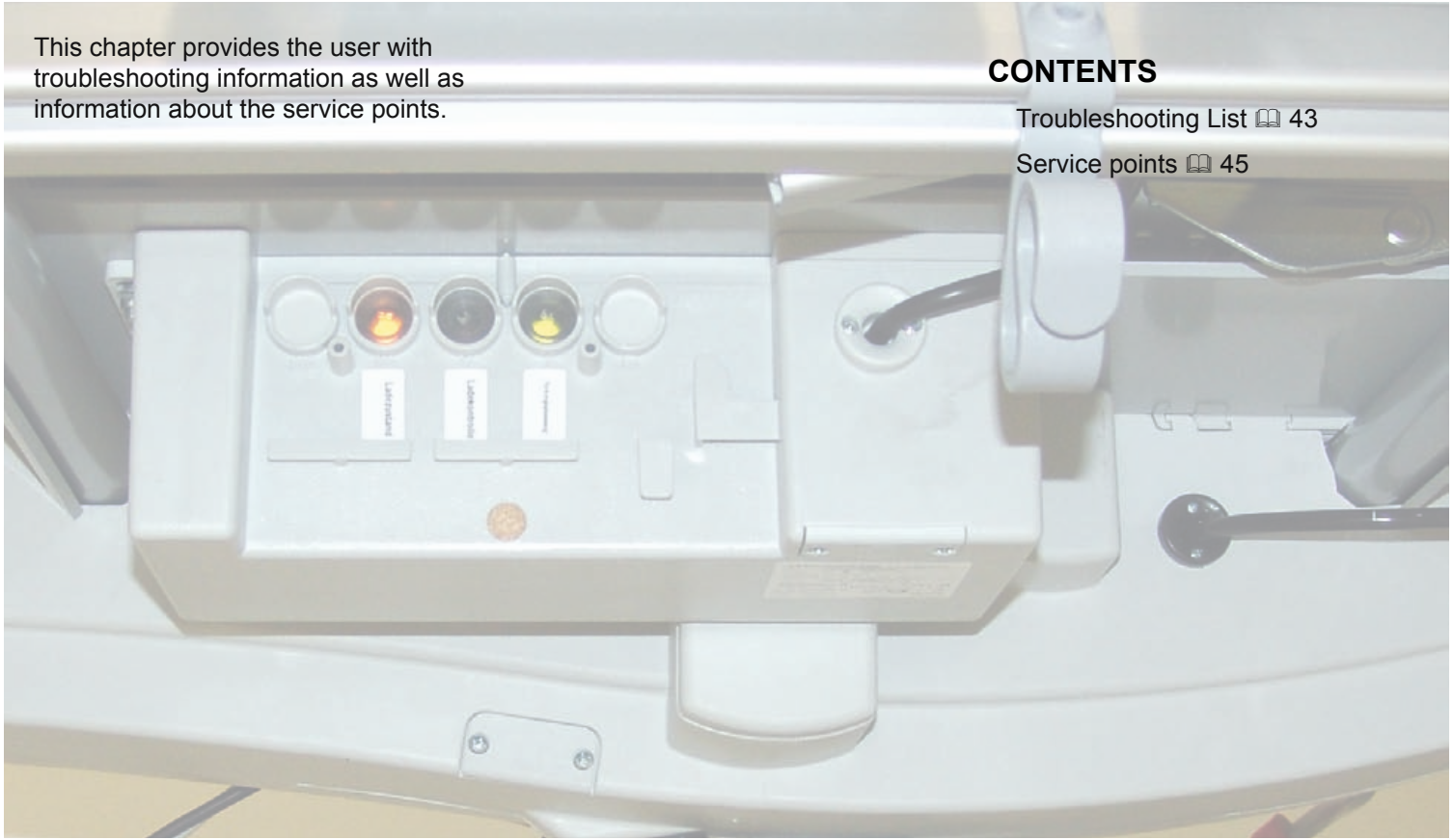
Cleaning and disinfecting the bed using a spray lance from a high-pressure cleaning device, or the use of an automatic washing system, are **not** permitted.

# Troubleshooting

This chapter provides the user with troubleshooting information as well as information about the service points.

## CONTENTS





# Troubleshooting | Troubleshooting List 1/2

The following troubleshooting list contains information about malfunctions which can be solved by the user.

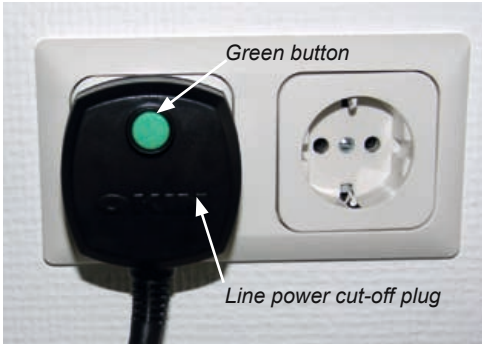
Malfunctions which can be only repaired by service technicians are described in the service manual.

***NOTICE*** Before carrying out any troubleshooting, ensure that the battery is charged (during the charging process, the yellow LED flashes at intervals according to the charge state), and that the bed is connected to the line power supply (power plug inserted into an outlet which is live).

⚠ **WARNING** Before starting any repair work, make sure to disconnect the bed from the line power supply and to separate the battery pack from the circuit, if necessary.

| Malfunction | Possible cause | Troubleshooting |
|---|---|---|
| Bed does not function at all. | • Plug not inserted or outlet is not live.<br>• Battery is not connected or dead. | (1) Insert plug or check outlet.<br>(2) Press green button[1] on the line power cut-off plug while simultaneously operating any function of the hand control. |
| Bed cannot be adjusted electrically. | • Control is locked.<br>• Hand control/nurse control is defective. | (1) Unlock control 🕮 30.<br>(2) Replace hand control/nurse control. |

[1] Green button of line power cut-off plug:




The line power cut-off ensures that there is no line voltage supplied to the bed when no electrical bed function is being operated. (Exception: During charging of the battery, the bed is supplied by line voltage. This is indicated by a flashing LED at the battery pack).

If necessary, please contact your sales representative. You will then immediately receive all necessary information on our comprehensive service.

# Appendix

The chapter **Appendix** provides the technical data and classification, information about the product lifetime and disposal as well as manufacturer‘s declarations and form sheets.

## CONTENTS



Konformitätserklärung / Declaration of Conformity / Déclaration de conformité

**Konformitätserklärung**
**Anhang VII**
**EU-Richtlinie 93/42/EWG**

Der Unterzeichnende
Völker AG
Wullener Feld 79
58454 Witten

bestätigt, dass die nachfolgend bezeichneten Produkte in der von uns in Verkehr gebrachten Ausführung die grundlegenden Anforderungen des Anhangs I der EU-Richtlinie 93/42/EWG erfüllen. Es wurden die folgenden Normen angewendet :
DIN EN 60601-1,
DIN EN 60601-1-2,
DIN EN 60601-1-4,
DIN EN 60601-2-38.

Damit sind die Anforderungen des Medizinproduktegesetzes zur Anbringung einer **CE Kennzeichnung** erfüllt.

**Declaration of conformity**
**Appendix VII**
**EU Directive 93/42/EEC**

The signatory
Völker AG
Wullener Feld 79
58454 Witten/Germany

confirms that the products described below and in the form distributed by ourselves meet the basic requirements of Appendix Iof EU Directive 93/42/EEC.
The followind standards are applied :
DIN EN 60601-1,
DIN EN 60601-1-2,
DIN EN 60601-1-4,
DIN EN 60601-2-38.

The requirements of the medical products law pertaining to the display of a **CE seal** of approval are thereby fulfilled.

**Déclaration de conformité**
**Annexe VII**
**Directive EU 93/42/CEE**

La soussignée
Völker AG
Wullener Feld 79
58454 Witten/Allemagne

confirme que les produits spécifies ci-dessous sont conformes, dans le modèle mis en circulation, aux exigences fondamentales de L’annexe L de la directive européenne 93/42/CEE.
Les standards suivants sont appliqués :
DIN EN 60601-1,
DIN EN 60601-1-2,
DIN EN 60601-1-4,
DIN EN 60601-2-38.

Les exigences de la loi sur les produits médicaux concernant leport de la **marque CE** sont ainsi

# Appendix | Explanation of Symbols

**Safety alert symbol**
Information marked by this symbol must be read and adhered to!



Direct Current (DC)

Alternating Current (AC)

Device according to safety class II (double protective insulation)

Type B device according to DIN EN 60601-1 standard

This device fulfills the basic requirements of Attachment 1 of the European Directive 93/42/EC.

The device must be disposed according to the European Directive 2002/96/EC regarding old electrical and electronic products.

| | |
|---|---|
| Length (external dimension) | 220 cm (with 200 cm long lying surface) |
| Width (external dimension) | 98 cm (with 90 cm wide lying surface) |
| Height, top edge head/foot board | 77.5 cm - approx. 117.5 cm |
| Castors | 4 pieces, Ø 150 mm |
| Max. castor load | 100 kg (static) |
| Height adjustment range Lying surface | approx. 40 cm to 80 cm |
| Mattress displacement | 12 cm |
| Net weight | 147 kg |
| Safe working load | 210 kg |
| Safe working load trapeze bar | 75 kg |
| Safe working load infusion post | 2 kg per clamp |
| Battery | Type: 4 x 6 V block battery (lead gel) 1.2 Ah |
| Line power voltage<br>Nominal current<br>Nominal frequency | AC 230-240 V; 100-110 V<br>0.8 A<br>50 / 60 Hz |

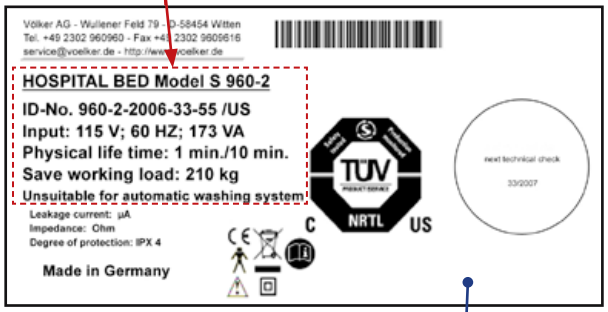
| | |
|---|---|
| Primary fuse | 2.0 A |
| Temperature range, in operation | + 10 °C up to + 40 °C |
| Temperature range, in transport/storage | - 20 °C up to + 60 °C |
| Humidity | 30 % up to 75 % rel. |
| Atmospheric pressure range | 700 hPa to 1,060 hPa |

| | |
|---|---|
| Protection against electric shock | Safety Category II or appliance with internal power source.  |
| Type of protection - housing compliant with EN 60259 | IP X4, unsuitable for mechanical decontamination |
| Degree of protection of parts handled by users against electric shock - according to DIN EN 60 601-1 standard | Type B  |
| Degree of protection against explosive materials and compounds | The bed is not explosion-proof and may not be used in environments in which there are flammable anesthetics or cleaning agents (see leaflet ZH 1/200 of German professional association (Berufsgenossenschaft)) |
| MPG category | Class I |

| | |
|---|---|
| Operation cycle | Interval 1 min / 10 min: Operational time max. 1 min, shut-off time 10 min. |
| Technical check | Once per year |

# Appendix | Identification Plate 1/2

Type specifications

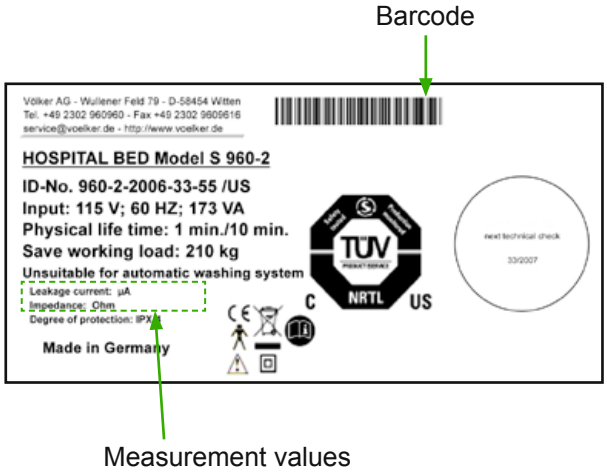



The identification plate is located on the inside, below the head board.

Move the back section up to read the identification plate.

| Type specifications | Explanation |
|---|---|
| 1. line | Model name. For example: HOSPITAL BED Model S 960-2 |
| 2. line | ID No. (with the following information):<br>960-2 = Model<br>-2006 = Year of manufacture<br>-33 = Week of manufacture (calendar week)<br>-40 = Consecutive number<br>US = Line power plug version (e.g. US = United States) |
| 3. line | Input: line voltage; line power frequency; power consumption |
| 4. line | Physical lifetime: max. uninterrupted operation of the electromotoric bed functions.<br>For example: 1 min./10 min.<br>Operational time max. 1 min, shut-off time 10 min. |
| 5. line | Safe working load (accessories, mattress and patient weight). |
| 6. line | Washing system suitability. For example: Unsuitable for an automatic washing system. |

# Appendix | Identification Plate 2/2




| Measurement | Explanation |
|---|---|
| 1. line | Leakage current in µA |
| 2. line | Impedance in Ω (Ohm) |

The measurement of the documented initial values is performed according to VDE 0751-1 (German standard for repeated measurements during life cycle).

The barcode (Code 39) comprises the numerical ID No. (10 digits).

# Appendix | Product Lifetime / Disposal

The average product lifetime of the hospital bed is approx. 10 years. To guarantee environmentally friendly disposal after the bed is put out of service, please contact your authorized sales representative.

# Appendix | Manufacturer‘s Declarations, Forms, Interactive Instructions for Use

**Manufacturer‘s declarations**



**Forms**



**Interactive Instructions for Use**

# Konformitätserklärung / Declaration of Conformity / Déclaration de conformité

## Konformitätserklärung
**Anhang VII**
**EU-Richtlinie 93/42/EWG**

Der Unterzeichnende
Völker AG
Wullener Feld 79
58454 Witten

bestätigt, dass die nachfolgend bezeichneten Produkte in der von uns in Verkehr gebrachten Ausführung die grundlegenden Anforderungen des Anhangs I der EU-Richtlinie 93/42/EWG erfüllen. Es wurden die folgenden Normen angewendet :
DIN EN 60601-1,
DIN EN 60601-1-2,
DIN EN 60601-1-4,
DIN EN 60601-2-38.

Damit sind die Anforderungen des Medizinproduktegesetzes zur Anbringung einer **CE Kennzeichnung** erfüllt.

Bei einer nicht mit dem Hersteller abgestimmten Änderung des Produktes verliert diese Konformitätserklärung ihre Gültigkeit.

Bezeichnung der Produkte :
Klinikbetten S 960-1, S 960-2,
S 960-2 W, S 961-1, S 961-2W, S 280 und S 380.

EG-Richtlinien :
Richtlinie 93/42/EWG vom 14.06.1993 über Medizinprodukte (Anhang I „Grundlegende Anforderungen“).
Die Produkte sind Produkte der Klasse I gemäß Anhang VII des Medizinproduktegesetzes MPG vom 02.08.1994

## Declaration of conformity
**Appendix VII**
**EU Directive 93/42/EEC**

The signatory
Völker AG
Wullener Feld 79
58454 Witten/Germany

confirms that the products described below and in the form distributed by ourselves meet the basic requirements of Appendix Iof EU Directive 93/42/EEC.
The followind standards are applied :
DIN EN 60601-1,
DIN EN 60601-1-2,
DIN EN 60601-1-4,
DIN EN 60601-2-38.

The requirements of the medical products law pertaining to the display of a **CE seal** of approval are thereby fulfilled.

This declaration of conformity becomes invalid if the products are altered without the agreement of the manufacturer.

Description of products Type/Article No.:
Hospital beds S 960-1, S 960-2,
S 960-2 W, S 961-1, S 961-2W, S 280 and S 380.

EU Directives :
Directive 93/42/EEC of 14.06.1993 concering medical products (Appendix I, Basic requirements). The design and construction of this product conforms to Class I (Appendix VII) Medical products law (MPG) of 02.08.1994.

## Déclaration de conformité
**Annexe VII**
**Directive EU 93/42/CEE**

La soussignée
Völker AG
Wullener Feld 79
58454 Witten/Allemagne

confirme que les produits spécifies ci-dessous sont conformes, dans le modèle mis en circulation, aux exigences fondamentales de L’annexe L de la directive européenne 93/42/CEE.
Les standards suivants sont appliqués :
DIN EN 60601-1,
DIN EN 60601-1-2,
DIN EN 60601-1-4,
DIN EN 60601-2-38.

Les exigences de la loi sur les produits médicaux concernant leport de la **marque CE** sont ainsi satisfaites.

Cette déclaration de conformité est invaledée en cas de modification des produits, non autorisée par le fabricant.

Désignation des produits
Modèle/Référence :
Lits hospitaliers S 960-1, S 960-2,
S 960-2 W, S 961-1, S 961-2 W, S 280 et S 380.

Directives européennes :
Directive 93/42/CEE du 14.06.1993 sur les produits médicaux (annexe I « Exigences fondamentales »). La conception du produit est conforme à la classe I (annexe VII). Loi sur les produits médicaux (MPG) du 02.08.1994.

Witten 01.07.2005

ppa. Heinrich Völker
*Vorstandsvorsitzender / Executive board (chair) / Directoire (Président)*

**Info**: For printing this document, please use the respective PDF file on the CD-ROM.

| Table 201 – Guidance and manufacturer's declaration – electromagnetic emission (6.8.3.201 a) 3)) | | |
|---|---|---|
| The S 960-2 is intended for use in the electromagnetic environment specified below. The customer or the user of the S 960-2 should ensure that it is used only in the specified environment. | | |
| **Emissions test** | **Compliance** | **Electromagnetic environment - guidance** |
| High frequency emissions<br>IEC 61000-3-2 | Class A | The S 960-2 is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes. |
| Voltage fluctuations /flicker emissions<br>IEC 61000-3-3 | Complies | |
| RF emissions<br>CISPR 14 – 1 | Complies | The S 960-2 is not suitable for interconnection with other equipment. |

| Guidance and manufacturer's declaration – electromagnetic immunity (6.8.3.201 a) 6)) | | | |
|---|---|---|---|
| The S 960-2 is intended for use in the electromagnetic environment specified below. The customer or the user of the S 960-2 should ensure that it is used only in the specified environment. | | | |
| **Immunity test** | **IEC 60601 test level** | **Compliance level** | **Electromagnetic environment - guidance** |
| Electrostatic discharge (ESD)<br>IEC 61000-4-2 | ± 6 kV contact<br>± 8 kV air | ± 6 kV contact<br>± 8 kV air | Floors should be made of wood, concrete or ceramic tile. If the floors are covered with a synthetic material, the relative humidity should be at least 30 %. |
| Electrostatic transient / burst<br>IEC 61000-4-4 | ± 2 kV for power supply lines<br>± 1 kV for input/output lines | ± 2 kV for power supply lines<br>Not applicable | Line power quality should be that of a typical commercial or hospital environment. |
| Surge<br>IEC 61000-4-5 | ± 1 kV differential mode<br>± 2 kV common mode | ± 1 kV differential mode<br>Not applicable | Line power quality should be that of a typical commercial or hospital environment. |

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| Immunity test | IEC 60601 test level | Compliance level | Electromagnetic environment - guidance |
|---|---|---|---|
| Voltage dips, short interruptions and voltage variations on power supply input lines<br>IEC 61000-4-11 | < 5 % $U_T$<br>(>95 % dip in $U_T$ )<br>for 0.5 cycles<br>40 % $U_T$<br>(60 % dip in $U_T$ )<br>for 5 cycles<br>70 % $U_T$<br>(30 % dip in $U_T$ )<br>for 25 cycles<br>< 5 % $U_T$<br>(>95 % dip in $U_T$ )<br>for 5 sec | < 5 % $U_T$<br>(>95 % dip in $U_T$ )<br>for 0.5 cycles<br>40 % $U_T$<br>(60 % dip in $U_T$ )<br>for 5 cycles<br>70 % $U_T$<br>(30 % dip in UT )<br>for 25 cycles<br>< 5 % $U_T$<br>(>95 % dip in $U_T$ )<br>for 5 sec | Line power quality should be that of a typical commercial or hospital environment.<br>If the user of the S 960-2 requires continued operation during power line interruptions, it is recommended that the S 960-2 be powered from an uninterruptible power supply (UPS) or a battery. |
| Power frequency(50/60 Hz)magnetic field<br>IEC 61000-4-8 | 3 A/m | 3 A/m | Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment. |
| NOTE : $U_T$ is the AC line voltage prior to application of the test level. | | | |

**Table 204 – Guidance and manufacturer's declaration – electromagnetic immunity for equipment and systems that are not life-supporting (6.8.3.201 b))**

The S 960-2 is intended for use in the electromagnetic environment specified below. The customer or the user of the S 960-2 should ensure that it is used only in the specified environment.

| Immunity test | IEC 60601 test level | Compliance level | Electromagnetic environment - guidance |
|---|---|---|---|
| Conducted RFIEC 61000-4-6 | 3 Vrms150 kHz to 80 MHz | 3 V | Portable and mobile RF communications equipment should be used no closer to any part of the S960-2 (including cables) than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.<br>**Recommended separation distance:**<br>$d = 1.17\sqrt{P}$<br>$d = 1.17\sqrt{P}$ 80 MHz to 800 MHz<br>$d = 2.33\sqrt{P}$ 800 MHz to 2.5 GHz |

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| Immunity test | IEC 60601 test level | Compliance level | Electromagnetic environment - guidance |
|---|---|---|---|
| Conducted RF<br>IEC 61000-4-3 | 3 V/m<br>80 MHz to 2.5 GHz | 3 V/m | where *P* is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and *d* is the recommended separation distance in meters (m).<br>Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey [a], should be below the compliance level in each frequency range.[b]<br>Interference may occur in the vicinity of equipment marked with the following symbol:<br>  |

NOTE 1: At 80 MHz and 800 MHz, the higher frequency range applies.

NOTE 2: These guidelines may not apply in all situations. Electromagnetic radiation is affected by absorption and reflection from structures, objects and people.

[a] Field strengths from fixed transmitters, such as base stations for wireless (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted from theory with any accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be carried out. If the measured field strength in the location in which the S 960-2 is used exceeds the applicable RF compliance level above, the S 960-2 should be monitored to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the S 960-2.

[b] Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.

**Table 206 – Recommended separation distances between portable and mobile RF communications equipment and the S 960-2 – for equiqment and systems that are not life-supporting (6.8.3.201 b))**

The S 960-2 is intended for use in an electromagnetic environment in which radiated RF interferences are controlled. The customer or the user of the S 960-2 can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the S 960-2 as recommended below, according to the maximum output power of the communications equipment.

| Rated maximum output of transmitter W | Separation distance according to frequency of transmitter m | | |
|---|---|---|---|
| | 150 kHz to 80 MHz $d = 1.17\sqrt{P}$ | 80 MHz to 800 MHz $d = 1.17\sqrt{P}$ | 800 MHz to 2.5 GHz $d = 2.33\sqrt{P}$ |
| 0.01 | 0.12 | 0.12 | 0.23 |
| 0.1 | 0.37 | 0.37 | 0.74 |
| 1 | 1.17 | 1.17 | 2.33 |
| 10 | 3.69 | 3.69 | 7.38 |
| 100 | 11.67 | 11.67 | 23.33 |

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For transmitters rated at a maximum output power not listed above, the recommended separation distance d in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.

NOTE 1: At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

NOTE 2: These guidelines may not apply in all situations. Electromagnetic radiation is affected by absorption and reflection from structures, objects and people.

# Technical check of Völker healthcare beds in accordance to German standards and safety regulations for series K 960 and S 960 / S 961 incl. measurements required

VÖLKER
Better Service
Wullener Feld 70 · 58454 Witten
Fax (0 23 02) 960 96-66
E-Mail: service@voelker.de

| Project/customer no.: | Location of the bed: | Type of bed: |
|---|---|---|
| Identification of the healthcare bed (e.g. due to the inventory of the facility and Völker bed identification number | | |
| Date of check | | |
| Name of technician | | |

| Kind of check | Component to be checked | Anually | Accepted | Not accepted | Not applicable |
|---|---|---|---|---|---|
| Visual inspection | Inscription on device readable? | X* | | | |
| | Instructions for use available? | X* | | | |
| | Base frame | B* | | | |
| | Lying surface | B* | | | |
| | Trapeze bar adapter / infusion bar adapter | B* | | | |
| | Power supply cable and plug / charging connection | B* | | | |
| | Pull relieve / bend protection | B* | | | |
| | Fit of plug-and-socket connections | B* | | | |
| | Motor housing / transformer housing | B* | | | |
| | Housing of hand control | B* | | | |
| | Cable of hand control | B* | | | |
| | Nurse control | B* | | | |
| | Trapeze bar, assist rail spacer, additional accessories | B*/F* | | | |
| | Stroke head traverse, head and foot section | B* | | | |
| | Castors | B* | | | |
| | Repulse rolls | B* | | | |
| Functional inspection of side rails, if applicable with telescope | Locking devices | X* | | | |
| | Deformation | X* | | | |
| | Abrasions | X* | | | |
| Functional inspection of drives with hand control and caregiver's console | Lying surface: back section, upper leg section, lower leg section, height adjustment, Trendelenburg position / reverse Trendelenburg position.<br>Base frame: approach all end switches | X*/M* | | | |
| | Angle limitation of back section and upper leg section > 90° | X* | | | |
| | Catch adjustment of foot section / gas spring | X* | | | |
| | CPR function | X* | | | |
| | Brake (electrical of mechanical) - brake applied<br>- straight forward<br>- brake not applied | X* | | | |
| | Mechanical release (only for electrical brakes) | X* | | | |
| | Replace 9 V battery (only model S 960-2) | A* | | | |
| Functional inspection, miscellaneous | Bed extension | B* | | | |
| | Bedding storage / bedding drawer | B* | | | |
| Comment | | | | | |
| Legally relevant for Germany only: Leakage current < 5 mA, in accordance to VDE 0751 | | mA | | | |
| Legally relevant for Germany only: Potential equalization impedance < 0.2 Ohm, in accordance to VDE 0751 | | Ω | | | |
| Legally relevant for Germany only: Measuring instrument S/N | | | | | |
| **Total result of the inspection** | | | | | |
| Signature of technician | | | | | |
| Next regular inspection | | | | | |

**A: To be replaced every two years · *B: Check for damage · *F: Check for deformation · *M: Check function of motors and end switches, does the motor switch off when reaching the end position? · *S: Check for correct fit · *X: General function control*

**Info:** For printing this document, please use the respective PDF file on the CD-ROM.

**Order notification**

Nursing home / hospital: _____

Street: _____

Address: _____

Name of orderer: _____

Contact person on site: _____

Telephone no. of contact person _____
(Please write all information in block letters)

VÖLKER AG
Department: Service
Wullener Feld 70
58454 Witten
Tel.: +49 2302 96096-62
Fax.: +49 2302 96096-66

E-mail: service@voelker.de

Spare part order: ☐

Repair order: ☐

Customer no.:_____
(Please fill in your customer code if available)

**Your order number** _____ **Location/date:**_____ **Signature:**_____

**Please provide all information carefully and completely, since this avoids unnecessary delays in order processing and delivery**

| **MODEL** (Type of bed) | **ID NUMBER / year of manufacture** (identification plate is located on the inside, below the head plate) | **Description / item** (of spare part or of the defect of the bed) | **ARTICLE NUMBER/ Mat. No.** (only for spare part orders) | **Quantity** (of needed spare parts) | **Location of the bed** (room/station) (only for repair orders) |
|---|---|---|---|---|---|
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VÖLKER AG points out, that -also within the period of guarantee- defects on beds, which result from a not intended use of the beds, will be charged.

**Info**: For printing this document, please use the respective PDF file on the CD-ROM.

**Prerequisites for using the interactive instructions for use**

In order to open the electronic version of these instructions for use (PDF file) found on the CD-ROM, you must have Adobe Reader 7.0.5 or newer (or the corresponding Adobe Acrobat version) installed on your PC. The MS Windows version of Adobe Reader 7.0.7 is contained on the CD-ROM, and can be installed without an internet connection.

Adobe Reader is available for nearly all operating systems. The newest version can be obtained free of charge by download from *www.adobe.de/products/acrobat/readstep2.html.* 🕮

CD-ROM

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