Assembly and operation manual

CE

Nursing care bed

.bock

- floorline 9.5|80

Dear valued customer,

with your decision to purchase a nursing care bed from Hermann Bock GmbH, you are receiving a long-lasting care product with superior functionality at the highest safety level. Our electrically operated nursing care beds guarantee optimal lying comfort and allow professional care at the same time. This product was designed with a focus on the elderly, whose confidence must be reinforced and whose life needs protection. With this health care product, we meet these requirements.
We urge you to prevent potential malfunctions and the risk of accidents by complying strictly with the safety and operating instructions and by carrying out the necessary maintenance.

Klaus Bock

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1 Preface and general instructions

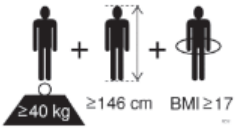
The various bed systems from Hermann Bock meet special requirements for the use in care and treatment facilities as well as for home care. Reliable functionality and a long product life make each bed particularly valuable. Our beds need little maintenance with proper operation and care. Each bed from Hermann Bock must pass quality testing in a final inspection before it is shipped anywhere. The beds are manufactured according to the current standards and compliant with the statutory requirements for medically used beds, and tested accordingly.

The beds comply with the EN 60601-2-52 standard. The electrical building components comply with safety standard EN 60601-1 for medical devices. Nursing care beds are medical devices and are to be assigned to Class 1.

These standards divide the beds in five different areas of use:

1. Intensive care in a hospital; intensive care bed
2. Short-term care in a hospital or other medical facility; patient bed in the hospital
3. Long-term care in medical environment; stationary nursing care bed
4. Care at home, pure so-called “HomeCare bed”
5. Home-care nursing service

1.1 Intended purpose



The nursing care bed is suitable for persons (adults) in need of care who are at least 146 cm tall. The person's weight must not exceed 185 kg and must be over 40 kg. The body mass index (BMI = weight of the person (kg) / body height of the person $(m)^2$) must be greater than or equal to 17.

The nursing care bed may be used in homes for the elderly or nursing homes and rehabilitation facilities. It is used to alleviate a disability and/or to facilitate the lives of people who are in need of care or to make the work of their caregivers easier. Accordingly, the health care beds are designed to be used for the application environments 3 to 5. Any other use is considered improper and is excluded from a possible liability claim.

The Trendelenburg function may be used exclusively under supervision of medical professionals. The nursing care bed is not suitable for use in hospitals. It is also not designed to transport patients. The beds can only be moved within the patient's room - even during patient positioning - for cleaning or better access to the patient, for example. After a movement, lock the rollers and turn them in the longitudinal direction of the bed (important for Trendelenburg, anti-Trendelenburg and comfort sitting position).

The bed is suitable for the re-use. Please observe the instructions for cleaning, care and disinfection in these assembly and operation manual. Special attention must also be paid to the information regarding the inspections.

Attention: The beds come with no special connection options for a potential equalisation. Electrical medical devices connected to the patient intravascular or intracardiac may not be used. The operator of the medical products has to ensure that the combination of the equipment meets the requirements of EN 60601-1.

This user manual contains safety instructions. All persons working with the beds must be acquainted with the contents of these instructions. Improper operation can result in personal injuries.

1.2 Definition of person groups

Operator
Operators (e.g. medical supply stores, specialist dealers, facilities and cost units) include all physical or juridical persons, who use the beds or have the beds used for medical purposes. The briefing on the use of the product shall generally be conducted by the operator.

User
Users are persons whose training, experience or briefing on the product allows them to operate the nursing care bed or carry out works on it. The user is able to recognize possible hazards and/or to avoid them and to assess the health condition of the patient.

Patient/resident
Person with one or more disabilities, one or more activity restrictions, one or more participation restrictions or a combination thereof.

Qualified personnel
Employees of the operator are referred to as qualified personnel. They are entitled to deliver the nursing care bed, assemble, dismantle and transport it, on the basis of their training or instructions. Besides knowing how to operate, mount and demount the nursing care bed, these persons must be instructed according to the guidelines concerning the cleaning and disinfection of the nursing care bed.

1.3 Safety instructions

The intended use/operation of all moving parts is as important for the safety of the person in need of care as well as for the relatives and the caregivers/nursing staff to avoid potentially dangerous situations. This requires the correct installation and operation of the bed. The individual physique of the person in need of care as well as type and the extent of their disability must be taken into account by all means when operating the bed.

Avoid dangers, accidental motor adjustments and incorrect operation by using the disabling function. When the operator, e.g. the nursing staff/caregivers or the care providing relative leaves the room, the entire operating functions of the bed should be disabled via the hand control. This is achieved by operating the key of the hand control. First, lower the lying surface to the safety position and activate the lock function with a twist of the key (located in the keylock on the backside). Remove the key and check the function of the hand control for safety reasons. Make sure that it is indeed locked.

These recommendations apply particularly:

- if the person in need of care cannot operate the hand control safely due to certain disabilities;
- if the person in need of care or the caregivers could be at risk due to those accidental adjustments;
- if the side rails are in a raised position and there could be danger of trapping and crushing,
- if children are unsupervised in the room with the bed.

Always make sure that the hand control (when not in use) is securely hooked in the support hook at the bed and cannot drop.

As a general rule, the bed should be operated by instructed nursing staff/caregivers, relatives or in attendance of instructed persons.

When adjusting the lying surface, it is particularly important to ensure that no limbs are placed within the adjustment range of the side rails. If the side rails are adjusted, pay attention to the correct lying position of the person in need of care.

Prior to making any electrical adjustment, it should, as a general rule, be made sure that no limbs are positioned in the adjustment range between the chassis and the head or foot part, especially that there are no persons or animals in the area between the floor and the raised lying surface. Danger of being crushed is particularly high in these areas. Always beware of objects that are located close to or even below the nursing care bed. This can lead to damages.

The permitted person's weight depends on the total weight of the equipment that has been mounted to the bed (mattresses and other electronic medical devices). For safe working load, please refer to the type plate on the lying surface frame of the bed.

1.4 Service life / warranty

This nursing care bed was developed, designed and manufactured for safe operation over a long period of time. With proper operation and maintenance, this nursing care bed has an expected service life of 15 to 20 years. The service life depends on operating conditions and frequency.

Attention: Unauthorised technical changes to the product voids all warranty claims.

This product is not approved for the North American market, particularly not for the United States of America (USA). Distribution and use of the nursing care bed in these markets, including through third parties, is prohibited by the manufacturer.

1.5 Requirements for the installation location

The company Hermann Bock GmbH is not liable for damages which might arise from the daily usage on the floor.

To avoid floor indentations, floor should correspond to the recommendations of the FEB - Fachverband der Hersteller elastischer Bodenbeläge e. V. (Association of Elastic Floor Coverings Manufacturers). To do this, the technical information FEB No. 3 can be referenced.

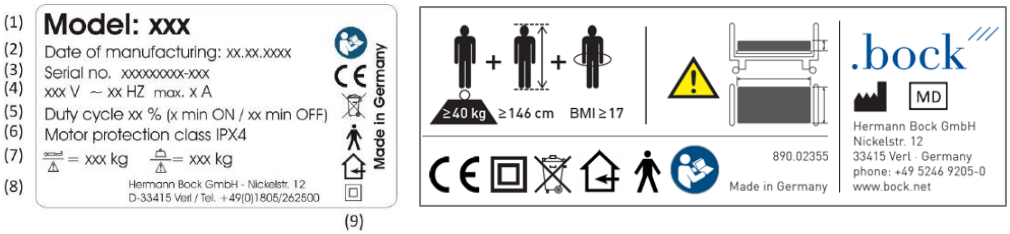
Hazard note from Bock

Simultaneous use of electrical appliances particularly in the vicinity of the operational bed may result in small electromagnetic interactions of these electric devices, e.g. static noise in the radio. In such rare events, increase the distance of the devices. Do not use the same socket or temporarily switch off the interference source and/or the disturbing or disturbed device.
If the bed should be operated with electrical medical equipment (contrary to its intended use), the functions of the bed must first be disabled via the integrated locking function in the hand control for the duration of the application.

1.6 Type plate

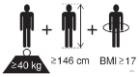
Each nursing care bed is marked with an individual and a general type plate.

Individual and general type plate



(1) Model designation
(2) Manufacture date: Day, month and year
(3) Serial number: Order number - running number
(4) Mains voltage, mains frequency and power input
(5) Duty cycle
(6) Drive protection class
(7) Maximum patient weight / safe working load
(8) Manufacturer
(9) Symbols (located on the right side)

Explanation of the symbols:

CE	Conformity mark according to the medical device regulation
	Symbol for observance of the user manual
	Within the European Union, this product must be disposed via the separated municipal waste. Product may not be disposed of as household waste.
	Medical application part type B
	Use only in dry rooms
	Protection class II (double insulation, insulated for protection)
IPX4	Protection of electrical equipment against splashing water
	Symbol for maximum patient weight
	Symbol for safe working load
MD	Symbol for the identification of a medical device
	Patient population
	Follow the instructions appropriate for mattress size and thickness
	Address of the manufacturer

2 General description of the functions

Construction design and function

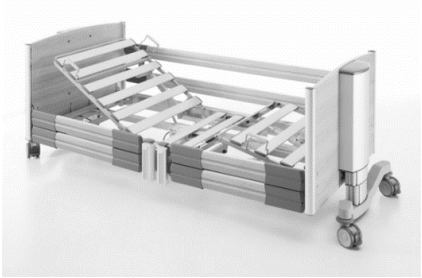
Corrosion protection

The Hermann Bock GmbH nursing care beds are developed and constructed in such a way that they can function long and safely. For this reason, all materials that may corrode are protected accordingly. All metal parts are equipped with a surface protection. The steel parts are either galvanised or stove-enamelled with a PES powder coating and the aluminium profiles are anodised.

The lying surface with 4 function areas

The lying surface consists as standard of a slatted comfort frame (can alternatively be fitted with aluminium slats or special suspension systems) and is divided into four functional areas: Backrest, solid seat, upper and lower leg rest.

The circumferential lying surface frame is welded from a steel/aluminium tube. The steel tubes are stove-enamelled with a PES-powder coating. The electric variable height adjustment of the lying surface is carried out with protective low-voltage DC motors (29 to 35V), and controlled with the smooth keys of the hand controller. The backrest can be adjusted electrically. The leg part consists of a foot support that is divided into two parts. With a touch of a button on the hand control, each individual position can be adjusted continuously. In case of a power failure the back part that can be lowered by loosening the tube clip.



The height adjustment

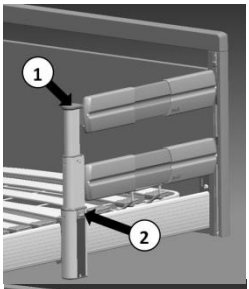
The height adjustment of the beds is carried out through two telescopic aluminium lifting columns. These are each mounted on a foot tube with two castors. The surface of the tubular steel structure is stove-enamelled with a PES-powder coating. This is covered with an appealingly designed plastic cladding.

The side rail

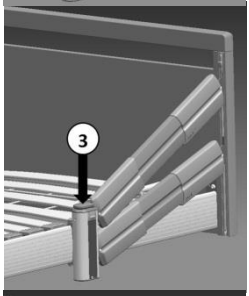
Each nursing care bed can be equipped on both sides with two side rails at a special safety height. The side rails can be lifted and lowered through a rail. The sliding pieces run particularly smoothly and quietly with an impact damper, and each end is fitted with a functional cap. The side rail can be easily operated through an ergonomically designed release button. Depending on the model, shorter or longer divided side rail variations are available.

Operating the telescopic divided side rails

Each side rail element can be adjusted independently from the rest of the side rail parts. The release buttons for adjustment are on the bottom of the telescopic post and on the top of the appropriate end panel of the nursing care beds, right next to the metal guides for the side guard rail bars.

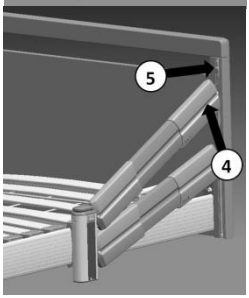


To lower the side rail element, hold the upper knob (1) of the middle post with one hand, **lift it up slightly**, and with the other hand press the release button (2) on the middle post in the inner direction.



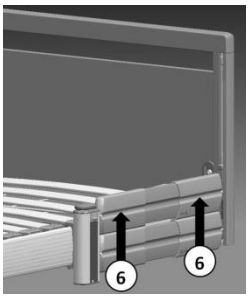
The side rail opens at the corresponding place and can be easily lowered downwards as far as it will go (3). The side rail is now diagonal.

To also lower the other side, please hold the side rail on the side of the end panel at the gripping groove (4), and slowly raise the side rail somewhat. Now, you can fully press the release button (5) and slowly lower the side rail.



Please observe:
Be sure to raise the side rail slightly, and only then press the release button! Failure to do so will result in damage to the release.

The side rail is now in the lowered position.



If the side rail element should be placed in the top position to aid in fall prevention, reach with both hands in the centre of the gripping groove (6) in the upper side guard rail, and pull it upwards until you hear it click into place at both ends. The side rail is now in a pulled-up position.

Hazard note from Bock

When using the telescopic (split) side rail on this nursing care beds, four adjustable feet must be screwed under the lying surface to prevent the telescopic posts of the side rail from touching the floor. The screwed-on adjustable feet allow lowing of the bed only to a minimum lower height of 15.5 cm.

Fig. 1: Continuous wood side rail

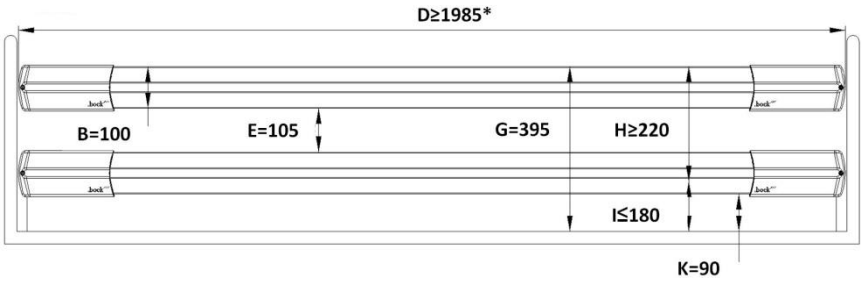


Fig. 2: Telescopic wooden side rail, solo post in the middle

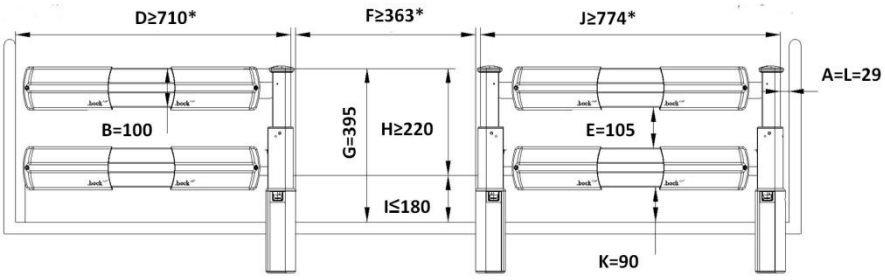
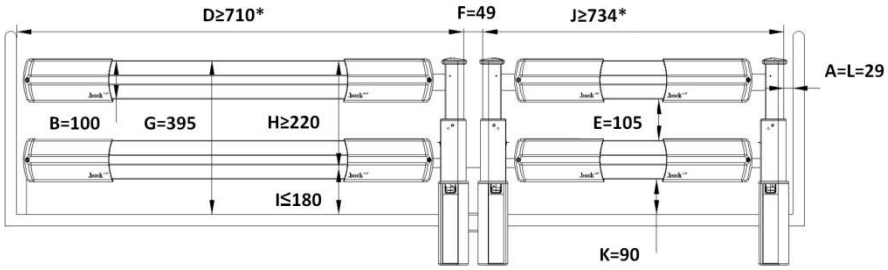


Fig. 3: Telescopic wooden side rail, double post in the middle



All dimensions in mm.

(*) Depending on the length of the lying surface. The single post at the head and leg end is optional. The dimension in brackets is optional.

Legend	
A:	Distance between the head part and the side rail
B:	Height 1 of side rail
C:	Height 2 of side rail
D:	Width 1 of the side rail
E:	Distance between the elements within the side rails
F:	Distance between the divided side rails
G:	Distance between the lying surface and the upper edge of the side rail
H:	Height of the top edge of the side rail above the mattress without compression
I:	Thickness of the mattress for the intended use
J:	Width 2 of the side rail
K:	Smallest dimension between side rail and lying surface (or the panel, if any)
L:	Distance between the foot part and the side rail

Item numbers	
Designation	item no.
Fig. 1: Continuous wood side rail	
Wooden side rail (two bars)	91703
Fig. 2: Telescopic wooden side rail, solo post in the middle	
Wooden side rail (two bars)	91868
Fig. 3: Telescopic wooden side rail, double post in the middle	
Wooden side rail long head part (two bars)	91704
Wooden side rail short foot end (two bars)	91705

Hazard note from Bock

Use only original Bock side rails, which are available as accessories for every nursing care beds.
Use only technically flawless and non-damaged side rails with the permissible gap dimensions.
Make sure that the side rails are engaged securely.
Before installation of the side rail and each new use, inspect all mechanical parts on the bed frame, and all parts of the side rails, and all parts which secure the side rails, for any possible damages.
The operation of the side rail should be done with great care. Fingers can be quickly pinched between the longitudinal pieces.

3 Electric parts

3.1 The drive unit

The drive unit consists of individual drives for the electrical adjustment of the back and leg rest part. The level adjustment takes place via two lifting columns that are attached to the head or foot end. The internal control box includes a switch box with a rectifier in which the input voltage is converted into a protective low voltage of max. 29 VDC direct current. The motors, lifting columns and the hand control function with this non-hazardous low voltage.

A power adjustment provides constant speed. Therefore, the safety functions comply with protection class II and the moisture barrier protection type IPX4.

The maximum duty cycle is specified on the (type plate) of the bed. For example, 10% duty cycle (2 min. ON / 18 min. OFF) means that any electronic adjustment can be performed for a max. of 2 minutes within a timeframe of 20 minutes (protection against overheating).

If the maximum setting time of two minutes is exceeded by two minutes (e.g. someone plays continuously with the hand control), which could lead to overheating of the controller or drives, the thermal fuse immediately shuts off the power supply to the bed. After a cooling time of approx. one hour, the power supply in the controller is automatically restored.

3.2 Caution: Electric drive

The electrically operated nursing care bed enables the person in need of care to support the recovery process psychologically and physically and at the same time relieve pain through its various functions. Electrically operated beds that are medical products need special care in regards to constant safety checks. This includes safety-conscious handling of the bed, daily inspection of electrical equipment and proper maintenance and cleaning.

To prevent damages to the cables, wiring should be conducted outside of the area in which damages could be caused. Furthermore, avoid touching the sharp parts. To prevent injury through an electric shock, avoid the possibilities of too high contact voltages. These circumstances may especially be the case if the power cable is damaged, if inadmissible and excessive leakage currents exist, or if liquid was spilled into the motor housing, e.g. during improper cleaning. This damage can cause malfunction of the controller, which could result in unwanted movements of single bed elements, posing a risk of injury for the operator and the person in need of care.

3.3 The drives / lifting columns

Hermann Bock GmbH equips nursing care beds with various drive systems from the company's DewertOkin and Baumeister.

Each drive consists always of four main components.

– Housing
– Motor
– Gear
- Spindle with nut

The housing principle of the individual drive guarantees the permanent function of all drive components. The design of the interior of the housing creates an essential prerequisite for the precise mounting of the drive technology and particularly simple assembly/disassembly due to its detailed internal design.

3.4 The external switch mode power supply SMPS

The plug-in part of the external switch mode power supply (SMPS) is an electronic transformer, which warms up only to a minimum degree under load and it is equipped with electronic performance monitoring. The result is a constant voltage up to the maximum load (no loss of speed) and a high level of protection against overloading. The external transformer ensures safety right from the socket because it converts the voltage directly into the 29V safety low-voltage which is used to actuate the bed. It is connected via plug coupling to the mains supply line feeder cable and can be replaced separately if defective.

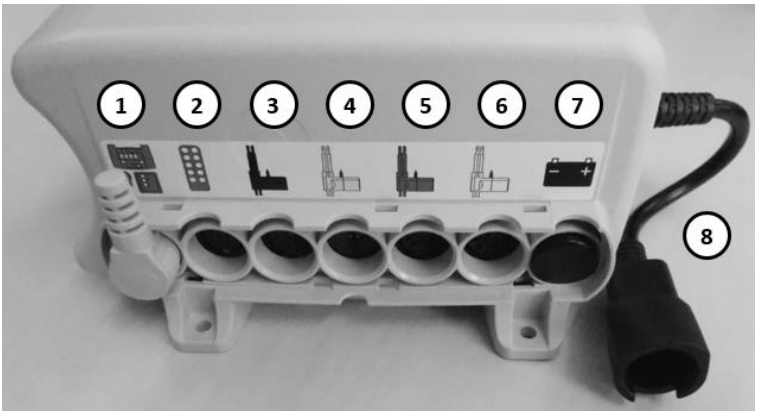
The plug-in part of the external switch mode power supply complies with the European directives for electrical household appliances. In standby mode, it also has a low energy consumption of maximum 0.5 Watt and can be used internationally with variable input voltages from 100 V to 240 V. Electromagnetic alternating fields are not measurable on the SMPS adapter.

The external switch mode power supply

3.5 The controller

The floorline 9.5|80 is equipped with a DewertOkin GmbH controller (Generation 1 / MCL 2 or Generation 2 / MCL 3). Alternatively, the floorline 9.5|80 can be equipped with a Smart-Care-Control (SCC) from Hermann Bock GmbH.

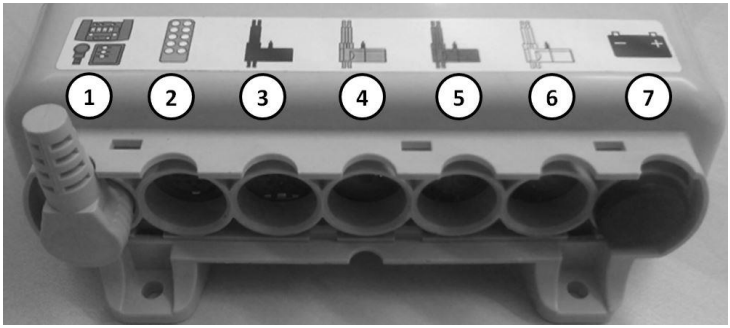
Controller Generation 1 / MCL 2



Controller Generation 1 / MCL 2

Four drives can be connected to the controller (sockets 3,4,5 and 6). The colour coding can be found in chapter 4 "Assembly and operation". A floor lighting can be connected to the connection socket for the hand control (socket 2), which in turn has a socket for the hand control. Please make sure that a dummy plug is attached to the connector for a battery (socket 7) if no battery is connected. The socket for the additional control element (socket 1) must be fitted with a so-called jumper plug. A reading lamp can be connected to the side pigtail connection (socket 8).

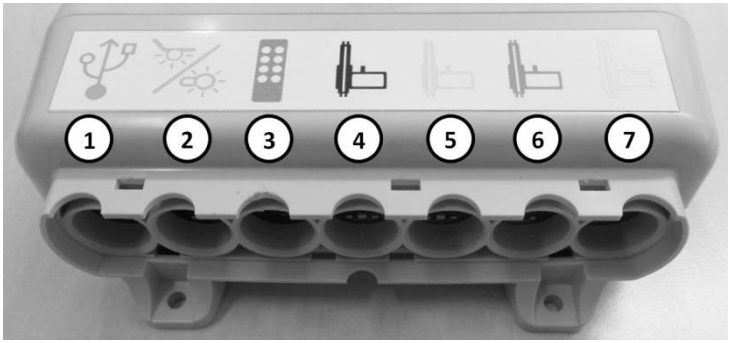
Controller Generation 2 / MCL 3



Controller Generation 2 / MCL 3

The connection sockets are identical to the Generation 1 controller (MCL 2) described above. The pigtail connector is located on the top of the controller.

SCC Controller



SCC Controller

The socket 1 is a CAN-BUS connection which can also be used to connect a sensor pad for a bed-off detection. Further details can be found in the separately supplied assembly and operation manual of the Smart-Care-Control unit. A Y-cable is plugged into socket 2 to which the floor lighting and the reading lamp are connected. The supplied hand control must be connected to socket 3. The connector sockets 4, 5, 6 and 7 are intended for the individual drives in the scissor and lying surface.

Hazard note from Bock

All drive components must not be opened!
Troubleshooting or exchanging single electrical components may only be performed only by special qualified personnel.

Hazard note from Bock

The motors meet the water protection standard IPX4. Do not squeeze/crush the cables. Adjustment of moving parts may only be used for the intended use. Hermann Bock GmbH assumes no liability for unauthorized technical changes.
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Hazard note from Bock

Do not try to fix failures on the electrical equipment itself. It could be fatal! Either call the customer service of Hermann Bock GmbH or an authorised/licensed electrician who conducts the troubleshooting in compliance with all relevant VDE regulations and safety regulations.

Hazard note from Bock

Do not exceed the maximum duty cycle of 2 minutes. Observe a subsequent break of at least 18 minutes by all means.

3.6 The hand control

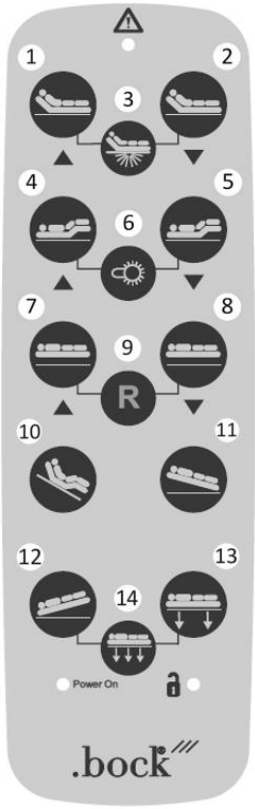
The series hand control is equipped with a built-in locking device, which allows the caregivers to lock the hand switch via a key completely or partially for its operation.

The lockable hand control, first-fault protected
The base functions can be controlled through the ten operation keys on the hand control. The four symbols in the middle indicate a special function that can be performed by simultaneously pressing the adjacent keys. The individual keys are marked with corresponding symbols. The servomotors run until as long as a corresponding key is pressed and held. A coiled cable allows the necessary freedom of movement while operating.

With the rear-mounted suspension unit, the hand control can be attached to the side rail - particularly when cleaning and during the maintenance of the bed. Thus, a possible disruptive position of the hand control can be avoided by simply attaching it to any preferred spot on the bed.

Function keys:

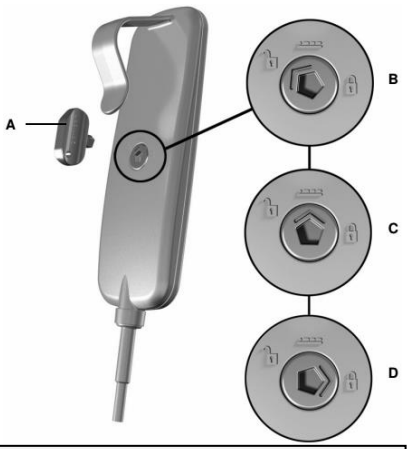
(1)	Back part upwards
(2)	Back part downwards
(3)	Floor lighting: Push keys (1) and (2) simultaneously
(4)	Lower leg part upwards
(5)	Lower leg part downwards
(6)	Lightening / reading lamp: Push keys (4) and (5) simultaneously
(7)	Lying surface upwards
(8)	Lying surface downwards *(Interim stop at the 37.5 cm exit position, safety stop at 27.5 cm safety position)*
(9)	Reset: **It is absolutely necessary to carry out this work during initial commissioning and after disconnection from the power supply!** (The reset motion is carried out by pushing keys (7) and (8) simultaneously. In doing so, after approx. 8 seconds, the bed moves slowly in the lowest position. After a signal beep from the controller, reset is carried out completely.)
(10)	Comfort sitting position upwards (*)
(11)	Foot-lowering position (anti-Trendelenburg)
(12)	Head-lowering position (Trendelenburg) (**)
(13)	Lying surface, back and lower leg part downwards *(moves to safety spot at 27.5 cm)*
(14)	Low function: Push keys (11) and (12) simultaneously **Caution: foot crushing risk** (Second interim stop at 15.5 cm for accessories and telescope posts at 9.5 cm in lower position (***))



(*) The comfort sitting position just moves upwards. All adjusted positions can be lowered by pressing key 13.
(**) When using the Trendelenburg function, unlock the brakes on one end piece. All castors must be parallel to the longitudinal axis of the bed.
(***) Not possible when using the (divided) telescopic side rails.

3.7 Hand control - lock functions

The hand control comes with an integrated disabling function that can be activated and deactivated with the corresponding key. To disable the entire electrical function, insert the key in the key-lock on the backside and turn the lock function on or off with a corresponding twist of the key.



A: Socket key
B: Release hand control keys
C: Head-lowering position (Trendelenburg - key 11) and low function (keys 12 and 13) closed
D: Release hand control keys

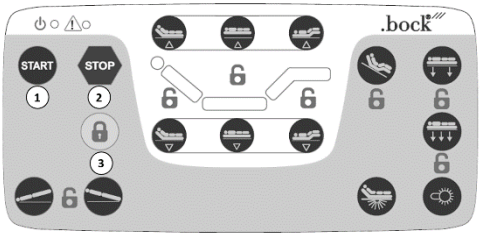
Hazard note from Bock

Make sure that the cable routing of the hand control is not routed under of one of the aluminium longitudinal frames. When the bed is completely lowered (low floor position), the cable could be damaged if routed underneath.
Perform a reset before use and after any separation from the mains.
Pay attention to the position of the castors, particularly at comfort sitting position, Trendelenburg and anti-Trendelenburg.
Keep in mind that when using accessories and (divided) telescopic side rails, the bed can only be moved to the second safety stop (15,5 cm).
When lowering the nursing care bed in the lowest position (low floor position), there is a high risk of crushing (feet, toes, and objects, e.g. cables) underneath the aluminium longitudinal frames and/or the bed end pieces.

3.8 Second controller (optional as accessory)

The nursing care bed can optionally be equipped with an additional controller.

For this purpose a second control box is mounted in the bed, which is connected to socket 2 of the controller. The hand control in socket 1 and the second controller in socket 2 are plugged into this second control box. Sockets 3, 4 and 5 remain unassigned and are equipped with a blind plug.



Operation:
To control the nursing care bed with the control panel, the keys must be released by pressing the "START" key (1). Now all functions can be executed that you can also find on the hand control. After adjusting the nursing care bed, you can press the "STOP" button to activate the key lock immediately, otherwise it will be activated automatically after some time of non-use.

Locking of functions:
You can use the second control panel to lock individual functions. To do this, press the key with the symbolic lock (3). Now you can select individual functions. The function is not disabled when the respective control lamp is lit. If the respective control lamp does not light up, the function is disabled. These functions are then disabled on the control panel **and** on the hand control. After you have locked all the necessary keys, you can confirm your selection by pressing the "START" or "STOP" key. The settings remain saved.

ATTENTION: If certain functions have been locked on the hand control, they are not locked on the second controller. These functions must be locked separately here.

3.9 Rechargeable Battery (optional as accessory)

The battery serves as a mains-independent reset function. No warranty shall be provided for the functioning of the drive in the event of a power failure.

Fully charge the battery for at least 24 hours before the first use. The built-in rechargeable batteries only reach their full capacity after 5 to 10 charging and discharging cycles.

As long as the controller is supplied with mains voltage, the automatic charging circuit ensures a permanent operational readiness. After using the drive system independently from the mains power, the battery should be recharged immediately by re-establishing the mains connection.

When the battery voltage reaches the cut-off threshold, the drive system is completely deactivated. The deep discharge protection protects the battery from possible damages that could result from failure to observe the discharge warning. If the voltage of the battery reaches the threshold of the deep discharge protection warning during driving, an acoustic signal sound. The battery should be charged immediately when the acoustic signal sounds, but the drive can still be moved for a short time.

Technical data	AG7 rechargeable battery
Input voltage	24V DC
Capacity	1.2 Ah
Fuse	T 15 A
Degree of protection	IPX4
Battery type	Lead fleece
Charge cut-off voltage	29 V DC
Charging time	approx. 14 hours
Service life	approx. 1000 charging cycles
Self-discharge	approx. 6 months

Hazard note from Bock

Note the idle time of the battery. This must rest for at least one hour prior to commissioning, removal and replacement of the battery.

There is a danger of electric shock! Before mounting, be sure to disconnect the mains plug of the drive from the socket! Make sure that the mains plug is accessible at all times.

To increase operational safety, carry out the following measures before initial commissioning or after extreme mechanical loads: Check the housing for damages. If the housing show signs of damage, or if the unit heats up excessively: Then disconnect the battery from the controller and shut down the drive system.

Do not open or destroy the battery.

Do not expose the battery to heat or open fire. Avoid storage in direct sunlight.

If the battery is leaking and there is a contact with the leaking liquid, rinse the liquid off thoroughly with water and seek medical attention immediately.

Dispose of the battery in accordance with the legal regulations for used batteries and rechargeable batteries,
as these may not be disposed of with household waste.

Maintenance: Perform regular visual inspections (at least every 6 months). Pay attention to possible damages on the housing, and check the plug connections and the cables for damages, crushed sections or shearing.

Maximum storage time 6 is months at the recommended storage temperature. Afterwards, the battery should be
charged again. At higher storage temperatures, the battery should be charged at an earlier point in time. This is to avoid a deep discharge, which could lead to an irreparable damage of the battery.

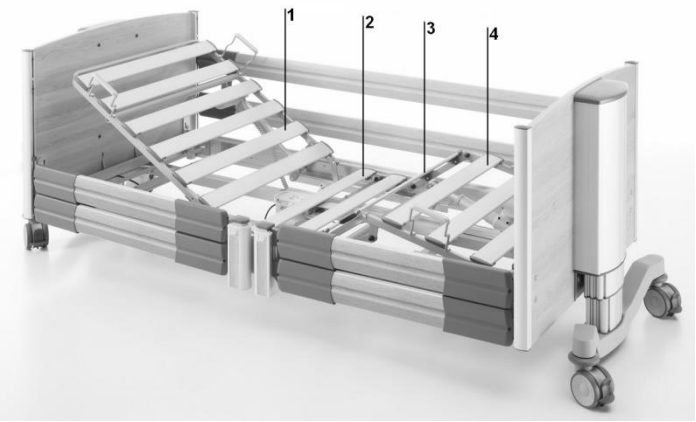
4 Assembly and operation

4.1 Technical data

Technical data			floorline 9.5|80
Lying surface dimension: cm			90 x 200
Outer dimension: cm			102 x 240
safe working load: kg			220
max. Weight of person: kg			185
Height adjustment: cm			9.5 - 80
Length of backrest: cm			88
max. Angle of incidence to horizontal:			
- back part			70°
- Lower leg part			20°
- Trendelenburg position			12 °
Side rail height with spring strips: cm			39.5
Side rail height with ripolux®neo: cm			35
Side rail selection options:			
- Continuous wood side rail			•
- Telescopic wood side rail			•
Lift space clearance: cm			> 15
Sound level: dB(A)			< 65
Weights:			
Total incl. continuous Wood side rail: kg			165
Lying surface: kg			66
Wood end panel incl. lift column: kg			39
Continuous wood side rail: kg/set			12.5
Telescopic wood side rail: kg/set			18
Electric data			
Manufacturer	Dewert / Baumeister (MCL 2 and MCL 3)	Input voltage: V	100-240*
		Frequency: Hz	50/60
		max. Power consumption: A	4.0 (MCL 2) 3.5 (MCL 3)
Manufacturer	Hermann Bock (SCC)	Input voltage: V	100-240*
		Frequency: Hz	50/60
		max. Power consumption: A	3.5

All parts and data are subject to a constant further development and may therefore differ from the mentioned data. Please note that the beds are also available in special sizes, whereas the technical data may vary accordingly.

*The voltage is converted into an extra-low safety voltage in the power supply unit, so that the input voltage at the controller is between 24-29V.



1 back part
2 fixed seat part
3 Upper leg rest
4 Lower leg rest

4.2 floorline 9.5|80

Barrier-free, independent, close to the floor: The new floorline 9.5|80 allows comfortable sleeping positions, even with a bed height of only 9.5 cm. Technology in each detail: floorline 9.5|80 can be easily extended and adapted to fit the need of the individual patient. It is really easy: The completely ergonomic and true bed extension is carried out in the blink of an eye. The side rails are designed for all bed lengths. floorline 9.5|80 provides high comfort to frail people, patients who need care and people with disabilities. It offers high lying comfort and support through easy operation as well as optimal care.

- floorline 9.5|80 is not suitable for use in hospitals.
- The floorline 9.5|80 is not suitable for transporting the patient. The beds must be only moved for cleaning purposes inside the patient's room or to allow access to the patient.
- The nursing care bed is suitable for persons (adults) in need of care who are at least 146 cm tall. The person's weight must not exceed 185 kg and must be over 40 kg. The body mass index (BMI) must be greater than or equal to 17.
- Under certain circumstances the floorline 9.5|80 can be used (if necessary) for medical purposes with other electric medical equipment (e.g. suction devices, ultrasonic humidifier, food systems, anti-bedsore systems, oxygen concentrators and similar devices). In this event, disable all bed functions for the duration of the application via the integrated disabling function.

Attention: The bed has no special connection options for a potential equalisation. Electrical medical devices connected to the patient intravascular or intracardiac may not be used. The operator of the medical products has to ensure that the combination of the equipment meets the requirements of EN 60601-1.

Special features

floorline 9.5|80 can be easily extended and adapted to fit the need of the individual patient. It is really easy: The completely ergonomic and true bed extension is carried out in the blink of an eye. The side rails are provided for all lengths. The result: Comprehensive comfort!

floorline 9.5|80 ready for use

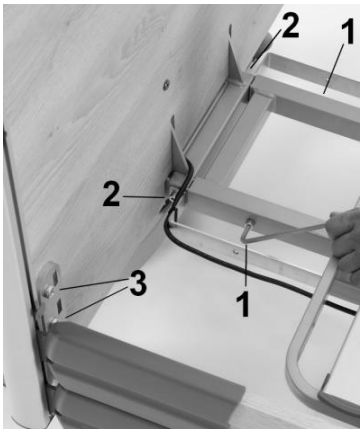
Remove all packaging and transport brackets from the bed and place the parts of the bed on a free and flat surface. The screws of the transport brackets are needed for the assembly of the bed.

Place the lying surface flat on the floor.

(1) Plug the end piece with the narrow intake in the extension slide on the foot side of the lying surface, connect the supplied hexagon socket screws (M8x25) and tighten firmly.

(2) Screw the galvanized angle brackets also with the hexagon socket screws (M8x20) to the end piece.

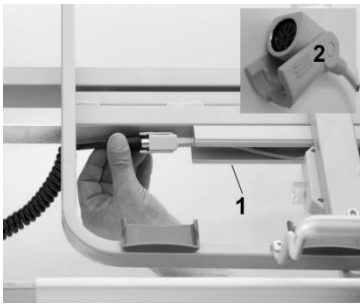
(3) Unscrew the cross-head screws from the end piece and screw them to the pull-out made of aluminium of the longitudinal frame. Tighten, if necessary, the threaded rod too, which is located on the bottom of the longitudinal frame.



Next, screw the end piece with the broad intake into the supporting girders at the head end and screw it together with hexagon socket screws (M8x25). The appropriate screws are located in the rectangular bar at the intake. Next, repeat step (3) on the head part.

For installation of cable connections, remove some strips from the lying surface. It makes it easier to access the cable canals.

Remove the cover of the (1) cable channels, which open the (2) pull reliefs and insert the connecting plug of the lifting column.
Additionally, run the power cable from the end piece of the head part through the cable channel and connect it to the back part of the control box. Next, place (press) the supplied plastic part onto the control box's mains plug.



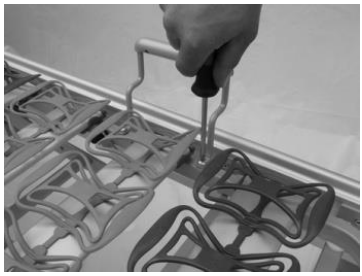
Place the cable of the lifting column from the head part and the power cable in the cable channel, in which the hand control cable is also located. Guide the cable of the lifting column from the foot part is through the still unused cable channel all the way to the controller. Fix this cable at the angle bracket with a cable tie.

Close the cable channels again completely to prevent any cable falling out. As the lying surface can be lowered to almost floor level, there is an increased risk of squeezing the cables.

Pin assignment of the control box:

- Red: hand control or floor lighting
- Black: head part of lying surface
- Yellow: foot part of lying surface
- Blue: scissor drive - head
- White: scissor drive - foot

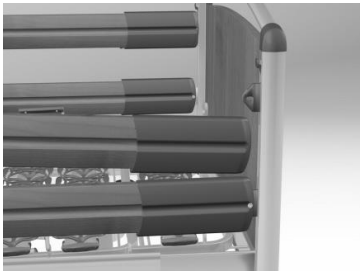
Mattress brackets can be disassembled for the transport. With the supplied tapping screws, attach them to the headrest and foot support as shown in the picture.



Before operating the bed, make a motor reset as described on page 17.

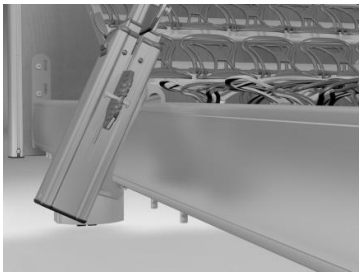
Standard side rail:

For the installation of continuous side rails, pull the integrated bed extension a little bit to the outside (see below). Now, insert the side guard rails onto the mounting latches and screw them together.



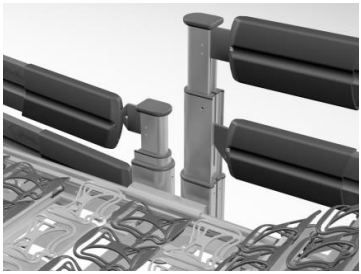
After all side guard rails are installed, slide the end piece back and tighten the screws again.

Telescopic side protection:

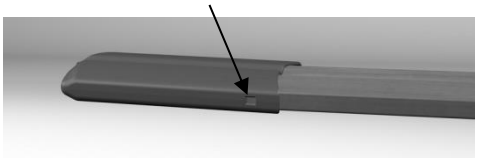


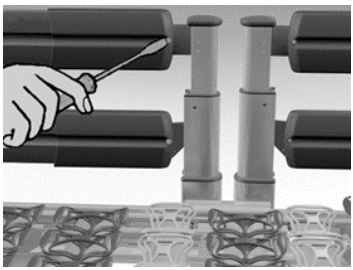
Place the outer posts at the end of the lying surface and the middle posts in the centre on the longitudinal frame of the lying surface.

Insert the side rails onto the mounting latches and screw them together.

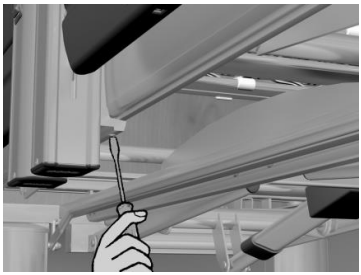


The markings on the side rail receptacles must point downwards.





Align the post sideways and tighten them from below.

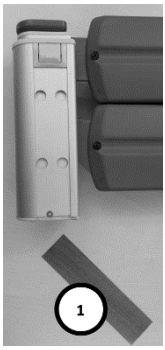


If the telescopic side rails are retrofit, screw 4 safety feet M10 into the cross-members of the lying surface. The use of a telescopic side rail only allows a lowering of the bed to a minimum height of 15.5 cm (second safety stop).

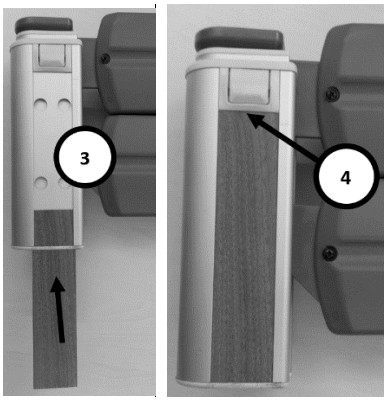
To do this, move the lying surface to the uppermost position. Unscrew the four outer screws from the two cross-members of the lying surface and replace them with the adjustable feet.

Move the bed to the lower position (second safety stop) and check whether there is still approx. 5 mm of air left between the floor and the underside of the telescopic post.

Inserting the decorative foil into the telescopic posts



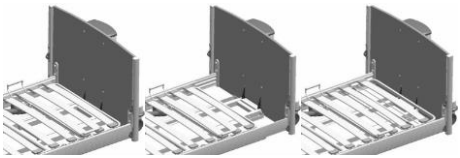
Take the decorative foil (1) and push it from below through the slot in the plug (2) into the aluminium profile of the side rail post (3). Please make sure that the correct side of the decorative film is facing outwards. This will be difficult to remove later. Push the decorative foil in until it is flush with the button (4). On the lower plug (2) there is a snap-in lug which prevents the decorative foil from falling out.



Check all screw connections again before operating the bed.

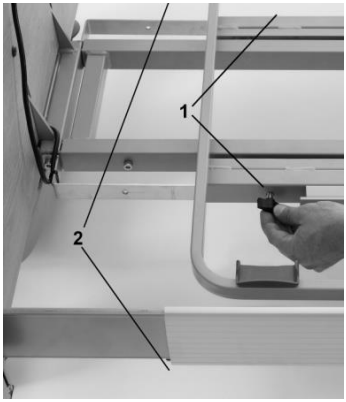
Hazard note from Bock

When using the telescopic (split) side rail on this nursing care beds, four adjustable feet must be screwed under the lying surface to prevent the telescopic posts of the side rail from touching the floor. The screwed-on adjustable feet allow lowing of the bed only to a minimum lower height of 15.5 cm.



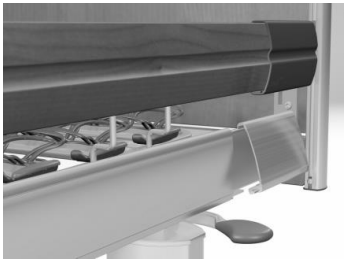
4.3 Bed extension

Remove the two wing screws (1) on the foot part and loosen the two threaded rods (2).
Pull the foot end piece out, approx. 220 mm.

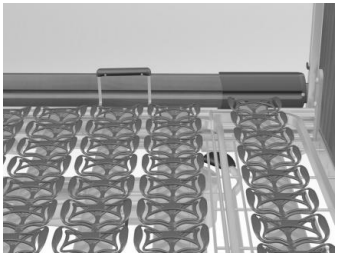


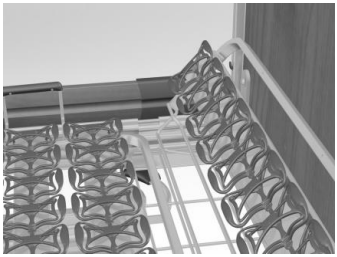
Take the foot bracket extension (available as accessory) and remove both attached aluminium caps.

Place the aluminium caps to the pull-outs.
Push the foot end piece back again so that the longitudinal frame, and the part in position are aligned flush with each other.
Screw the thumb screws on again and tighten them.
Also tighten both threaded rods on the longitudinal sides again below.



Insert the foot bracket extension as shown in the Fig.





4.4 Emergency lowering - back part

In case of power or drive system failure, you can lower the elevated back part manually.

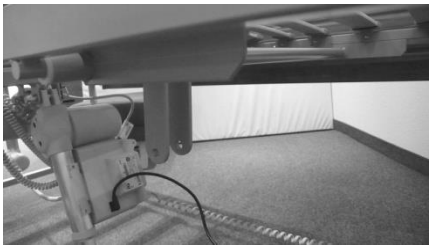
Must be carried out always by two people!

One person lifts the back part slightly (to take pressure off) and holds it in this position. As next step, the second person removes the locking pin from the motor.

The motor is now separated from the back part and can be swivelled downwards.

Once the second person has left the danger zone, the first person can lower gently the back part.

Hold the back part by all means until it is fully lowered.



Hazard note from Bock

Emergency lowering may be only carried out in an emergency by people who safely master this operation.
Absolutely disconnect the bed from the mains as long as the motors have not been mounted again.

4.5 Change of location

If the bed must be moved to another location, please follow these safety instructions:

- Lower the lying surface with key (8) of the hand control.
- Before performing a movement with the nursing care bed pull the mains plug and attach with the end piece to secure the power cable against falling and being crushed by anything. Make sure that the cable is not dragged over the floor.
- Before inserted the mains plug again, inspect the power cable visually for mechanical damage (dents and kinks, abrasions and bare wires).
- Place the power cable in a way that it will not be rolled over or strained during the operation of the bed or could be damaged when inserting the mains plug again.
- Perform the reset movement, as described on page 17.

4.6 Transport, storage and operating conditions

	Transport and storage	Operation
Temperature	0°C to +40°C	10°C to +40°C
Relative humidity	20% to 80%	20% to 70%
Air pressure	800hPa to 1060hPA	

4.7 Function notes

To keep the bed in one location, lock the castor brakes on the chassis. To accomplish this, use your foot to move the locking lever on each castor downwards. Make sure that the castors are parallel to the longitudinal axis of the bed. This is important in the Trendelenburg and the anti-Trendelenburg position but also in the comfort sitting position. (Here, the brakes on one end piece must be unlocked.)

If necessary, pull the integrated side rails up until they lock into place. When using mattresses of different thickness, the minimum height of 22 cm, measured from the top edge of the side rail above the mattress without compression, may not be underrun (additionally, a third side rail attachment guard must be used, which is available as an accessory).

4.8 Disposal

Each of the components made of plastic, metal and wood are recyclable and can be disposed/recycled in compliance with the relevant legal provisions. Please note that electric adjustable nursing care beds or nursing beds are considered commercially used electronic scrap according to the WEEE-EC directive 2012/19/EC (b2b). All replaced electrical and electronic components of the electrical adjustment system must be handled in accordance with the requirements of the Electrical and Electronic Equipment Act (ElektroG) and disposed of properly.

4.9 Troubleshooting

This overview helps you to detect and correct malfunctions on your own and explains, what kind of malfunctions require the consultation of suitably qualified service personnel.

Malfunction	Potential causes	Remedy
The drive units cannot be controlled via the hand control	Power cable is not connected	Insert power cable
	Signals of the lifting columns are incorrectly processed within the controller	Perform the reset movement, as described on page 17.
	No voltage in the socket	Check the socket or the fuse box
	Plug connector of the hand control not fixed firmly	Check the plug-in connection on the motor
	Hand control or drive unit defective	Notify the operator or Bock customer service
	Disabling function or control box in the hand control activated	Disabling function or control box in the hand control deactivated
When buttons are pressed, the drive units stop after a short time	There is an obstruction in the adjustment range	Remove obstruction
	The safe working load has been exceeded	Reduce the load
The drives stop after a longer adjustment time	The adjustment time or safe working load has been exceeded and the polyswitch in the transformer of the controller has responded to increased heat	Allow the drive system to cool down sufficiently. After 2 minutes of adjustment under full load, a break of 18 minutes must be observed
Opposite functions when operating the hand control	Check the pin assignments on the controller, see Chapter 3.4	Connect the cables according to the colour marking, or inform the operator or the customer service of H. Bock
Individual drive units run in one direction only	Hand control, drive unit or controller defective	Notify the operator or Bock customer service
Drive units stop and bed remains in a tilted position	Constant operation of adjustment functions	Move lying surface in bottom or top position as this will straighten it again horizontally. Activate disabling function in hand control

5 Accessories

Hermann Bock GmbH offers practical and mobility-promoting accessories to ensure that each nursing care bed is tailored even more precisely to the individual needs of the person in need of care. The installation is done in a quick and easy manner using the fixing points on the bed that have already been prepared for this purpose. It goes without saying that every element of our additional equipment offer meets the special quality and safety standards of Bock. In addition to the standard accessories included in basic equipment, the customer can also choose from our variety of accessories, which is available for each bed model. These optional accessories vary depending on the bed model and are fitted to its special functions and location of use. The range stretches from technical elements over mattresses up to the occasional extra bed. A wide range of wooden finishes and a variety of colours allow for the harmonious integration of each nursing care bed with any kind of furniture.

5.1 Special dimensions

Special dimensions are an essential part of the production Hermann Bock GmbH. Optimal lying comfort for persons in need of care who have a particular physique can only be achieved by means of custom-built models. With its customized models, Hermann Bock GmbH enables customers to have their nursing care bed tailored to fit the individually physical requirements of the person in need of care. For body heights greater than 180 cm, Hermann Bock GmbH recommends the use of an integrated bed extension together with a foot extension (refer to *Accessories*) that allows an extension of the lying surface to a length of up to 220 cm. This enables even tall people to lie comfortably while maintaining the same level of functionality.

Hazard note from Bock

When using accessories on the bed or medically necessary devices as infusion stands in close proximity to the bed, ensure particularly that there are no risks of crushing or shearing for the person in need of care when adjusting the back and leg rests.

The representative of the service hotline of Hermann Bock are looking forward to informing you about the best retrofitting
solution for your bed. Hotline no. 0180 5262500 (14 cents/min. for calls from landline phones, 42 cents/min. for calls from mobile phones).
A wide product range of auxiliary furniture complements the various bed models up to the complete interior design of your home. This combination creates a care and living comfort resulting in perfect harmony.

6 Cleaning, maintenance and disinfection

The individual bed elements consist of high quality materials. The surfaces of the steel tubes are covered with a durable polyester-powder coating. All surfaces of the wooden parts are surface-sealed with an ecologically coating that is low on harmful substances. All bed elements are easy to clean and cared for using wipe and spray disinfection means according to the applicable cleaning requirements with respect to the various areas of application. Observing the following care instructions will retain the usability and visual appearance of your nursing care bed for a long time to come.

6.1 Cleaning and care

Steel tubes and vanished metal parts:
Please use a wet wipe and a regular mild household detergent for the cleaning and care of these surfaces.

Wooden-, decorative-, and plastic elements:
All standard furniture cleaners and cleaning detergents can be used. Using a wet wipe without detergent additives for the cleaning of the plastic elements should generally be sufficient. For care of the plastic surfaces use a product that is specifically suitable for plastics.

Drive:
To prevent the intrusion of moisture into the motor housing, we recommended using only a damp rag to clean outside housing.

Spring systems ripolux neo:
Use a damp rag without adding any detergents, or, if deemed necessary, a detergent that is exclusively suitable for plastics and clean the spring elements made of plastics. In case of heavy contamination, remove the spring elements from the supporting elements and the supporting elements from the frame of the lying surface. The dismounted plastics elements can be rinsed or spray-washed with hot water to get them clean. For the disinfection, the components should be sprayed with a detergent suitable for plastics. Most of the moisture drips off the plastic surface by slightly shaking it, while the rest will dry on its own within a very short time. Remount the elements after they have completely dried. If required, you can also remove each of the individual lying surface elements completely from the frame to clean them.

6.2 Disinfection

Disinfect the nursing care bed with a wipe disinfectant. Please adhere to the tested and recognised procedures of the Robert Koch Institute (RKI). You can use commercially available cleaning and disinfecting agents approved by the RKI. In order to maintain the material resistance of the plastic elements such as the motor housing and decorative elements, only mild and gentle agents should be used for disinfection. Concentrated acids, aromatic and chlorinated hydrocarbons as well as detergents containing highly concentrated alcohols, ether, ester and ketone may damage the material and should therefore be avoided. The list of disinfectants and disinfection methods tested and approved by the Robert Koch Institute can be found on the Internet at www.rki.de.

6.3 Avoidance of hazards

In order to avoid dangers in connection with cleaning and disinfection, you must first observe the following regulations in connection with the electrical components of your nursing care bed. Non-observance of these guidelines may result in considerable damage of the electrical lines and the drive.

1. Pull the mains plug and position it in such a way that contact with excessive amounts of water or detergents can be excluded.
2. Check all plug-connections for correct position according to the instructions.
3. Check the cables and electrical component parts for damage. Should you detect any damage, do not perform any cleaning operations but first have the defects repaired by the manufacturer or an authorised/ licensed electrician.
4. Before starting the operation, check the mains plug for residual moisture and dry or blow out the device, if necessary.
5. On any suspicion of the intrusion of moisture into the electrical components, disconnect the mains plug immediately and do not re-establish the connection. Put the bed out of operation immediately, attach an appropriate visible label and contact the manufacturer/supplier.

Hazard note from Bock

Use of abrasive cleansers and/or detergents containing grinding particles, cleaning pads or stainless steel cleaners for the cleaning is absolutely not recommended. Neither use organic solvents such as halogenated/aromatic hydrocarbons and ketones nor detergents containing acid or alkaline.
Under no circumstances must the bed be sprayed with a water hose or high-pressure cleaner, as liquid penetrates into the electrical components, and as a result malfunctions
and dangers could occur.

Clean and disinfect the bed before using it again. Also, at the same time, perform a visual inspection to check for any mechanical damages. You will find detailed information on this in the inspection list.

Guidance and manufacturer's declaration

– Electromagnetic emission

The *nursing bed* is intended for use in the electromagnetic environment specified below.
The customer or the user of the *medizinisches Bett* should assure that it is used in such an environment.

Emission test	Compliance	Electromagnetic environment - guidance
RF emissions CISPR 11 (partly)	Group 1	The medical used bed uses RF energy only for its internal function. Therefore, its RF emissions are very lowand are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR 11 (partly)	Class B	The medizinisches Bett is suitable for use in all establishments other than domestic and those directly connected to the public-voltage power supply network that supplies buildings used for domestic purpose.
Harmonic emissions IEC 61000-3-2	Class B	
Voltage fluctuations/flicker emissions IEC 61000-3-3	Complies	

– Electromagnetic immunity

The nursing bed is intended for use in the electromagnetic environment specified below.
The customer or the user of the *medizinisches Bett* should assure that it is used in such an environment.

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
Electrostatic discharge (ESD) IEC 61000-4-2	Contact discharge: ± 8 kV Air discharge: ± 2 kV,± 4kV ,± 8kV ,± 15kV	Contact discharge: ± 8 kV Air discharge: ± 2 kV,± 4kV ,± 8kV ,± 15kV	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%.
Electrostatic transient/burst IEC 61000-4-4	± 2 kV for power supply lines ± 1 kV for input and output lines	± 2 kV for power supply lines ± 1 kV for input and output lines	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	± 1 kV differential mode tension	± 1 kV differential mode tension	Mains power quality should be that of a typical commercial or hospital environment.
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	0% UT; ½ period; at 0,45,90,135,180,225,270 and 315 degrees; 0% UT; 1 period; 70% UT; 25/30 periods; single-phase at 0 degrees 0% UT, 250/300 periods	0% UT; ½ period; at 0,45,90,135,180,225,270 and 315 degrees; 0% UT; 1 period; 70% UT; 25/30 periods; single phase at 0 degrees 0% UT, 250/300 periods	Mains power quality should be that of a typical commercial or hospital environment. If the user of the medical bed requires continued operation during power mains interruptions, it is recommended that the medical bed is powered from an uninterruptible power supply or a battery.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	30 A/m	30 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 a. c. mains voltage prior to application of the test level.

The *nursing bed* is intended for use in the electromagnetic environment specified below.
The customer or the user of the *nursing bed* should assure that it is used in such an environment.

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
Conducted HF disturbance variables according to IEC 61000-4-6 Radiated HFdisturbance variables according to IEC 61000-4-3 Special frequencies according to IEC 61000-4-3 Table 9 have been tested, too	3 V 150kHz-80MHz 6V in ISM and amateur-radio frequency bands 10 V/m 80MHz-2700MHz	3 V 150kHz-80MHz 6V in ISM and amateur-radio frequency bands 10 V/m 80MHz-2700MHz	

NOTE 1 At 80 MHz and 800 MHz, the higher frequency range applies.
NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection form structures, objects and people.

[a] Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, en electromagnetic site survey should be considered. If the measured field strength in the location in which the medizinisches Bett is used exceeds the applicable RF compliance level above, the medizinisches Bett should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the medizinisches Bett.
[b] Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.

Hazard note from Bock

Use of the nursing bed immediately adjacent to portable communication devices, including their accessories such as antenna cables and external antennas should not be used within 30cm of the nursing bed's electrical components and wiring.

Failure to observe this may result in incorrect operation.

8 Regular inspections with service

Regular inspections facilitate the maintaining of the highest possible safety level, and are considered to be an important safety precaution. Medical devices must be inspected regularly in terms of safety according to the stipulated regulations of the manufacturer and the generally accepted rules of technology. The safety-related protection measures are subject to different requirements and demands. This also applies to the potential wear and tear in the daily use. To prevent such risks, constant and consistent compliance with the deadlines for regular functional testing is absolutely necessary. The manufacturer has no influence on the operator’s adherence with respect to the observance of these regulations concerning electric beds. Bock facilitates the observance of the necessary precautionary measures to be taken by means of their time-saving services.

The execution of the inspection, assessment and documentation must be performed only by or under supervision of professional persons such as electricians or electro-technically instructed persons who have a thorough knowledge of the relevant provisions and are able to recognize possible impacts and hazards.

In the event that no person on the part of the user is eligible for the regular inspections or is commissioned, the Bock service offers you the assumption of the regular inspections with simultaneous control and observance of the corresponding intervals for a fee.

The company Hermann Bock GmbH specifies an inspection interval which stipulates that a safety-technical inspection is to be executed at least once annually, and with each re-use of the bed.

For support purposes, Hermann Bock GmbH will provide you with the inspection list in the assembly and operation manual for carrying out all the necessary tests. Please copy the checklist as a form for your inspection. The checklist serves as evidence report of the performed inspection and must be kept on file.

The inspection list can also be downloaded from the Internet: www.bock.net.

Attention: Unauthorised technical changes to the product voids all warranty claims.

Inspection list for Bock nursing care beds	**Page 1 von 2**	**Issuing date: 01.09.2021 / Rev.08**
Model designation/year of manufacture:		
Serial / Inventory-No.:		
Manufacturer:	Hermann Bock GmbH	
Client:		
Address:		
Location:		

Visual inspection / functional inspection:

No.	description	yes	no
General:			
1	Type plate/label present on the bed and readable?	☐	☐
2	Operation manual available?	☐	☐
3	Does the application by the operator correspond to the intended use?	☐	☐
4	Is the safe working load as per type plate (patient weight + mattress weight + accessory weight) observed?	☐	☐
5	Are the accessories (e.g. lifting pole incl. handle and belt, grab rail, wall deflection rollers, etc.) safe and in perfect condition? Are all accessories safely fixed and without signs of wear? Is the handle of lifting pole not older than 5 years (service life of the handle according to the manufacturer's specifications)? Is the correct lifting pole fixture/sleeve used (welded instead of edged) or has it already been retrofitted?	☐	☐
6	In the case of retrofitted lifting pole sleeve: screw tightened with 6-9 NM?	☐	☐
7	Mechanical fasteners (screws, bolts, etc.) complete and free of defects? Screws tightened?	☐	☐
8	Are wood splinters, cracks or other damages to the wooden parts visible?	☐	☐
Electrical components:			
9	Power cables, connecting cables and plugs without cable breaks, pressure and kinking points, abrasions, porous points and exposed wires?	☐	☐
10	Strain relief tightly fastened and efficient?	☐	☐
11	Correct and secure cable leading and cable connections?	☐	☐
12	Motor housing and hand control without damage? Has moisture penetrated?	☐	☐
13	Is the power supply unit without damage?	☐	☐
14	Motor lift pipes and fork head of motor faultless and without damage?	☐	☐
15	Operation of the hand control (buttons and locking device) faultless and without defects? Function of the limit stop given?	☐	☐
16	Battery/block battery/emergency lowering: Function faultless and without any defects?	☐	☐
17	*Only for nursing bed adi.flex:* Is the motor lift pipe sprayed with silicone spray?	☐	☐
Chassis (with scissor beds) / end panels (with actuator beds):			
18	Chassis construction free of defects with no ruptured welding seams?	☐	☐
19	Castors and bumper rollers (if available) without damages?	☐	☐
20	Plastic end caps and mechanical fasteners (screws, bolts, etc.) complete and without damages?	☐	☐
21	Stroke adjustment faultless and without obstacles?	☐	☐
22	Safe braking effect, locking and free running of the castors?	☐	☐
Lying surface and end panels:			
23	Wooden slats, aluminum/steel slats, carrier plate and/or springs free of defects? (No cracks, no fractures, tight fit, pressure load sufficient, etc.)	☐	☐

	Only for nursing bed dino: distance between aluminum bars less than 6 cm?		
24	Lying surface frames and lifting parts free of defects and no ruptured welding seams?	☐	☐
25	Plastic end caps and mechanical fasteners (screws, bolts, etc.) complete and without damages?	☐	☐
26	Tight fit and no damages at the head and foot end panel?	☐	☐
27	Back rest, leg part adjustment as well as special functions faultless and without obstabcles?	☐	☐
28	Safe adjustable snap fitting of the lower leg rest (if present) in every step even under load stress?	☐	☐
29	*Only for nursing bed domiflex 2:* Is the clamping effect of the 6 eccentric clamps sufficient? The stop nut must be tightened with at least 6 NM!	☐	☐
Side rails:			
30	Side rails present and without cracks, breakages or damage?	☐	☐
31	Distance between side rail bars less than 12 cm? *Only nursing care bed dino:* distance between the bars less than 6 cm? Distance between side rails and lying surface smaller than 6 cm?	☐	☐
32	Is the height of the side rails above the mattress at least 22 cm? *Only nursing care bed dino: is the* height of the side rails above the mattress at least 60 cm?	☐	☐
33	*Only with divided side rails: Is the distance between the end panel and side rails and/or distance between divided side rails less than 6 cm or greater than 31.8 cm?*	☐	☐
34	Smooth running of the side rails in the tracks and safe locking? *Only nursing bed dino:* Smooth running of the doors on the aluminum profiles? Secure locking of the doors into the locking mechanism?	☐	☐
35	Sufficient fastening and/or tight fit of the side rail bars/parts?	☐	☐
36	Load stress test of the side rails without deformation?	☐	☐
37	*Only nursing bed Dormi:* Are the hooks and bars undamaged?	☐	☐
Electric measuring:			
Insulation resistance - (must be only measured on old models before manufacture year of 2002.)			
38	Insulation resistance – measured value higher than 7 MΩ?	☐	☐
Device leakage current – (This measurement does not have to be carried out for nursing care beds with a limoss drive set manufactured from 2018-05 onwards and/or for nursing beds with a Dewert drive set manufactured from 2015-07 onwards during the first 10 years of service life, if the visual and functional testing has been passed, if it is a nursing care bed with a limoss or Dewert switched-mode power supply (SMPS). With these nursing care beds, the mains voltage in the switched-mode power supply is converted directly into a safety extra-low voltage of max. 35 V.)			
39	Direct measuring of device leakage current– measured value smaller than 0.1 mA?	☐	☐
Evaluation:			
40	All values within the permissible range, test passed?	☐	☐
In the event the inspection results did not pass:		☐ Repair ☐ Singling out	
Date / Name of the inspector in block letters / Signature inspector		**Next inspection**	

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Our SALES PARTNERS
Our business partners pursue the same strategy as we do: quality, innovation and above-average standards that are internationally recognized. You can rely on our business partners as you can rely on us.
Please note that only our authorised personnel and our sales partners can provide training, supply of spare parts, repairs, inspections and other service. Otherwise, all warranty claims will be void.
A listing of our current distributors can be found under www.bock.net/kontakt/vertriebspartner

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