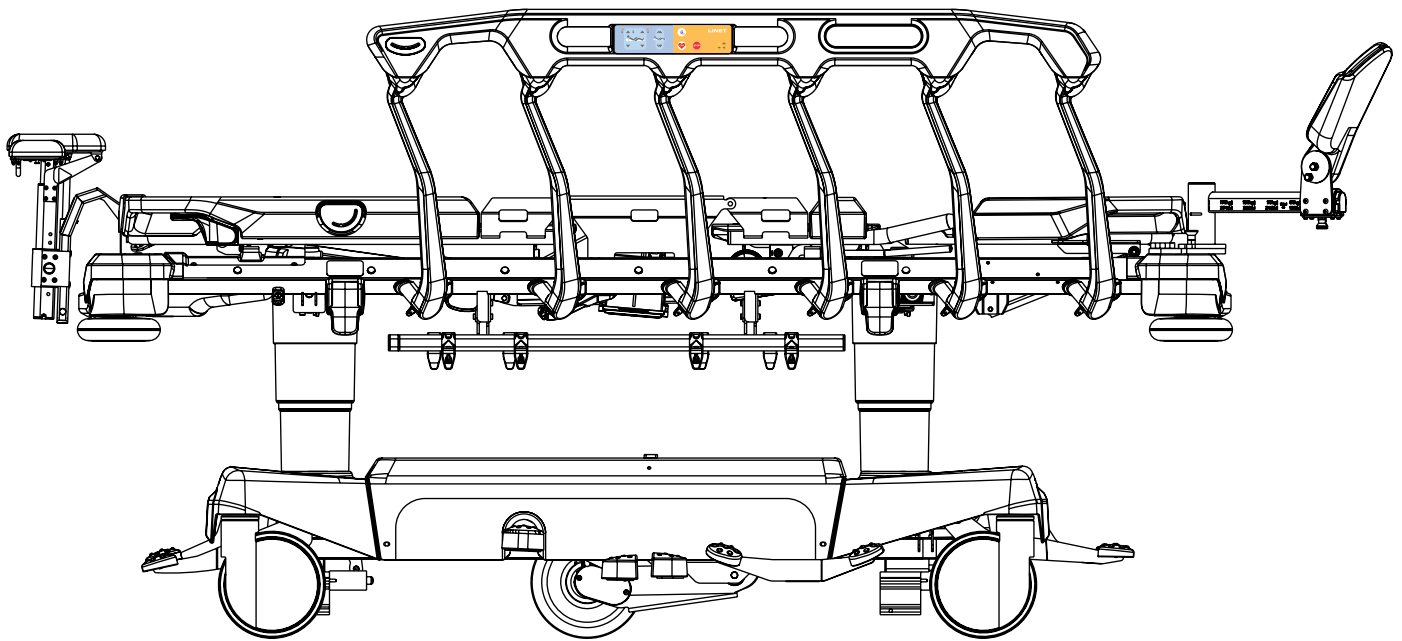


Instructions for Use and Technical Description



Sprint[®] 400 Emergency Stretcher

Sprint[®] 200/400/600 Mattresses

***stretcher with scales and without scales,
stretcher with i-Drive Power[®] and without i-
-Drive Power[®]***

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Sprint 400

Emergency Stretcher

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1 Symbols and Definitions

1.1 Warning Notices

1.1.1 Types of Warning Notices

Warning notices are differentiated by the type of danger using the following signal words:

- ▶ **CAUTION** warns about the risk of material damage.
- ▶ **WARNING** warns about the risk of physical injury.
- ▶ **DANGER** warns about the risk of fatal injury.

1.1.2 Structure of Warning Notices



DANGER!
Dangerous electricity!
 ▶ Measures to avoid the risk.



WARNING!
Type and source of risk!
 ▶ Measures to avoid the risk, if necessary.



CAUTION!
Type and source of risk!
 ▶ Measures to avoid the risk, if necessary.

1.2 Instructions

Structure of instructions:

- ▶ Perform this step.
 Results, if necessary.

1.3 Lists

Structure of bulleted lists:

- List level 1
 - List level 2
 - List level 3

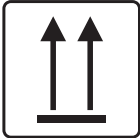
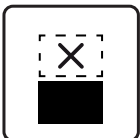
1.4 Patents and Trademarks

The following Trademarks are registered Trademarks in U.S.A.:
LINET®
Sprint®
i-Drive Power®
Ergoframe®
SoftDrop®

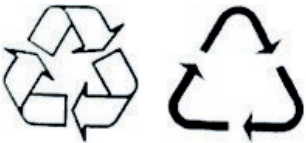
Link to the list of registered Trademarks and Patents:

<https://www.linetamericas.com/en-US/about-us/list-of-patents>

1.5 Symbols on the Package

	FRAGILE, HANDLE WITH CARE
	THIS WAY UP
	KEEP DRY (PROTECT FROM HUMIDITY)
	PAPER RECYCLING SYMBOL
	DO NOT USE HAND TRUCK HERE
	DO NOT STACK DURING STORAGE

1.6 Symbols on the Stretcher

	READ INSTRUCTIONS FOR USE
	SAFE WORKING LOAD
	WARNING AGAINST CRUSHING OR TRAPPING
	JACK FOR ATTACHMENT OF CONDUCTOR FOR POTENTIAL EQUALISATION
	GENERAL WARNING SIGN
	APPLIED PARTS TYPE B
	APPLIED PARTS TYPE BF
	ONLY SUITABLE FOR INDOOR USE
	MAXIMUM WEIGHT OF PATIENT
	WEIGHT OF STRETCHER (depending on configuration)
	RECYCLING SYMBOLS

	MAXIMUM LOAD OF THE MONITOR SHELF 15 KG PLACE MONITOR ON THIS SIDE OF THE MONITOR SHELF
	MAXIMUM LOAD OF THE MONITOR SHELF 15 KG DO NOT PLACE MONITOR ON THIS SIDE OF THE MONITOR SHELF
	INSTRUCTION FOR PLACEMENT OF THE MONITOR SHELF (L=LEFT, R=RIGHT)
	MAXIMUM LOAD OF ONE HOOK 5 KG FOLD THE MARKED FOLDABLE INFUSION STAND AS THE FIRST ONE
	MAXIMUM LOAD OF ONE HOOK 5 KG FOLD THE MARKED FOLDABLE INFUSION STAND AS THE SECOND ONE
	MANUFACTURER
	MANUFACTURING DATE
	REFERENCE NUMBER (PRODUCT TYPE DEPENDING ON CONFIGURATION)
	SERIAL NUMBER

	MEDICAL DEVICE (COMPATIBLE WITH MEDICAL DEVICE REGULATION)
	WEEE SYMBOL (RECYCLE AS ELECTRONIC WASTE, DO NOT PUT INTO THE HOUSEHOLD WASTE)
	BATCH NUMBER (ACCESSORIES)
	UNIQUE DEVICE IDENTIFICATION (FOR MEDICAL DEVICES)
	MAXIMUM MASS OF MOBILE HOSPITAL BED (MAXIMUM MASS OF EMPTY STRETCHER + SAFE WORKING LOAD)
	OFF (i-DRIVE POWER)
	ON (i-DRIVE POWER)
	CE MARKING FOR Sprint 400 WITHOUT SCALES (PRODUCT NORMATIVELY HARMONIZED FOR EUROPEAN ECONOMIC AREA)
	CE MARKING FOR Sprint 400 WITH SCALES (PRODUCT NORMATIVELY HARMONIZED FOR EUROPEAN ECONOMIC AREA)
	EARTH GROUND

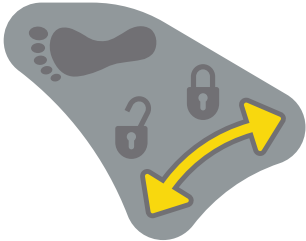
 Complies with ANSI/AAMI ES60601-1 CAN/CSA C22.2 No. 60601-1:14	MET MARKING
	CAUTION LABEL: CONFIRM SIDERAIL IS LOCKED (PUSH SIDERAIL TOWARDS HEAD END AND FOOT END TO ENSURE THE SIDERAIL IS LOCKED IN THE UPPER POSITION!)
	UNLOCKED AND LOCKED SIDERAIL LABEL (RED SIDE PARTS OF BOTH SIDERAIL RELEASE LEVERS ARE NOT VISIBLE WHEN THE SIDERAIL IS LOCKED IN THE UPPER POSITION.)
	LOCKING AND UNLOCKING THE FOOT SUPPORT IN THE ACCESSORY BUSHINGS ON THE STRETCHER FOOT END VIA ROSSETTE SCREW
	DO NOT POLLUTE THE ENVIRONMENT



Fig. Warning, read instructions for use

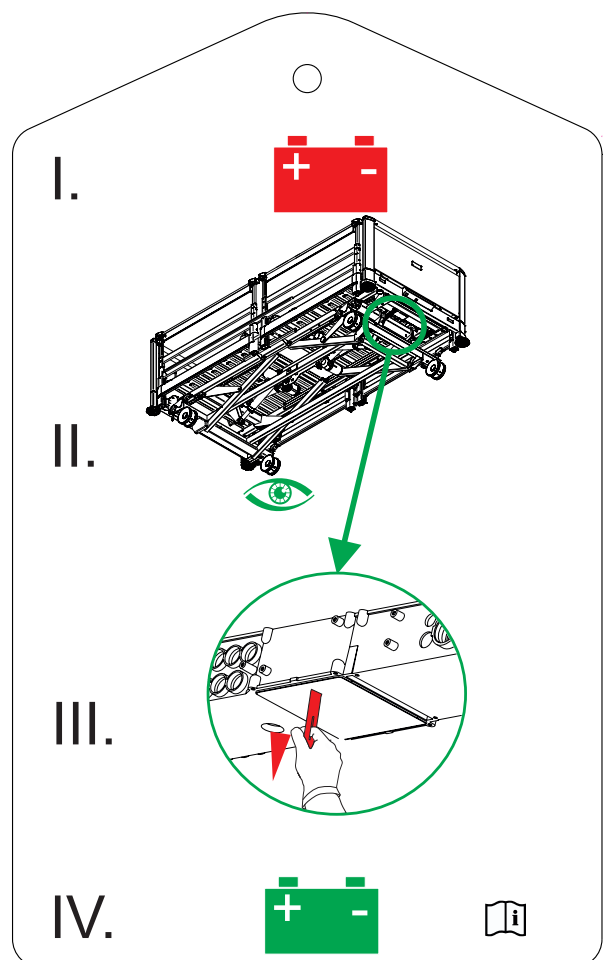
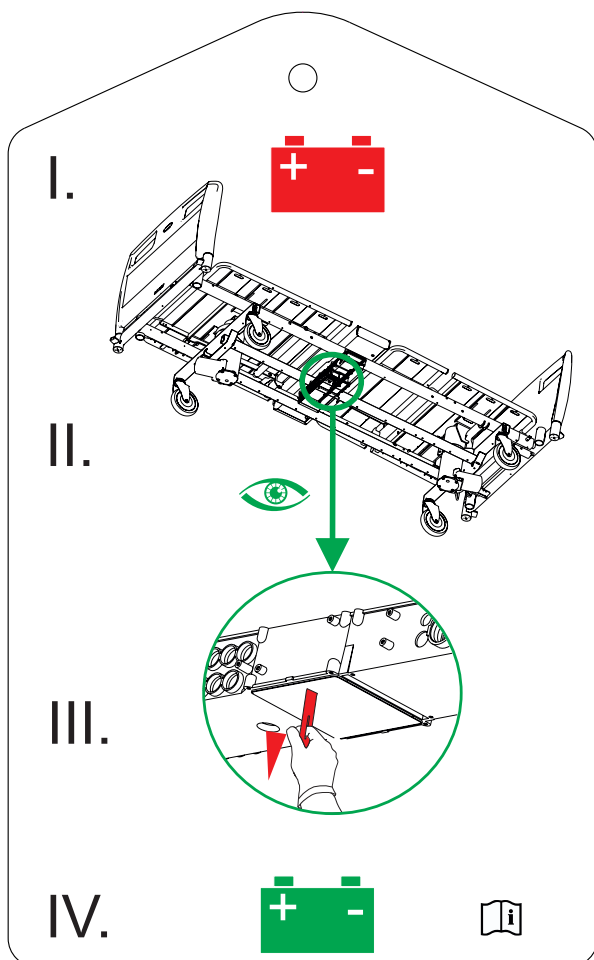
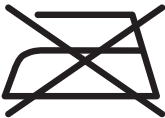
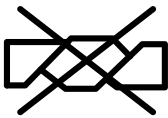
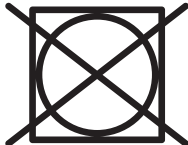


Fig. Accumulator Activation Instructions (follow the left page)

1.7 Symbols on the Mattress

	READ INSTRUCTIONS FOR USE
	CE MARKING (PRODUCT NORMATIVELY HARMONIZED FOR EUROPEAN ECONOMIC AREA)
BS 7175  5 MEDIUM HAZARD	COVER MATERIALS ARE FIRE RESISTANT TO BS7175, SOURCE 0, 1 AND 5
	DO NOT IRON
	DO NOT USE PHENOL
	DO NOT WRING
	REGULARLY INSPECT THE INSIDE OF THE COVER FOR CONTAMINATION
	MACHINE WASH AT MAX. 71°C FOR 3 MINUTES
	DO NOT WASH (ONLY FOR MATTRESS COVER EQUIPPED WITH THE X-ray Sleeve)
	DO NOT TUMBLE DRY (ONLY FOR MATTRESS COVER EQUIPPED WITH THE X-ray Sleeve)

	TUMBLE DRY ON LOW HEAT SETTING (MAX. 60°C)
	MATTRESS FOOT PART
	DO NOT BLEACH
	PROFESSIONAL CHEMICAL CLEANING (MODERATE PROCEDURE)
	NATURAL DRYING
	RINSE WITH WARM WATER AND NEUTRAL DETERGENT (INITIAL TEMPERATURE OF HOT WATER SHOULD NOT EXCEED 50°C)
 NaClO 10,000 ppm max	DISINFECT USING SOLUTION CONTAINING LESS THAN 10,000 ppm OF CHLORINE (SEE CHAPTER 'CLEANING OF PASSIVE MATTRESS')
 NaClO 1,000 ppm max	DISINFECT USING SOLUTION CONTAINING LESS THAN 1000 ppm OF CHLORINE (SEE CHAPTER 'CLEANING OF PASSIVE MATTRESS')
	RINSE WITH WARM WATER

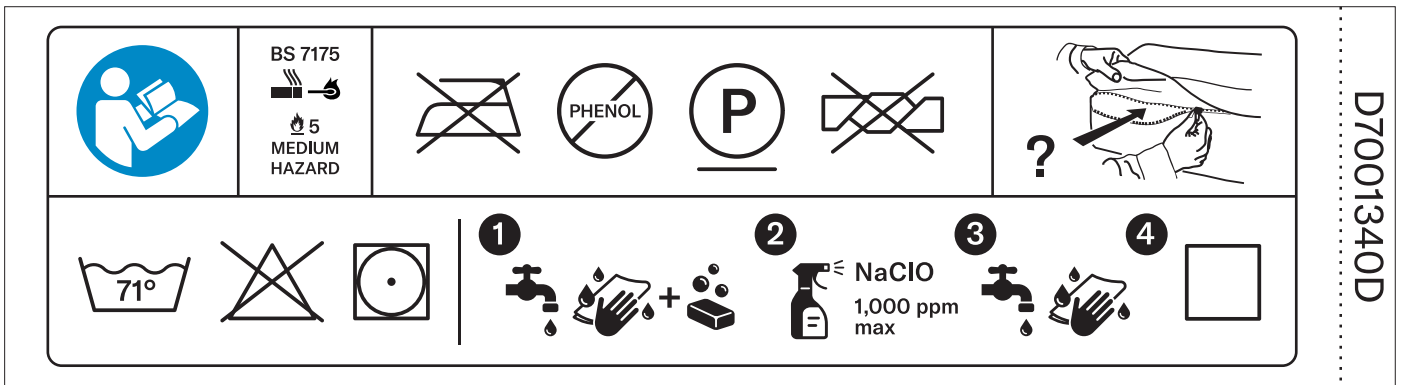


Fig. Mattress Wash Label for Sprint 400 / 400 / 600 mattresses without X-ray Sleeve



Fig. Mattress Wash Label for Sprint 400 / 400 / 600 mattresses with X-ray Sleeve

1.8 Serial Label with UDI

1.8.1 Sprint 400

There is a serial label of the stretcher under the Backrest.

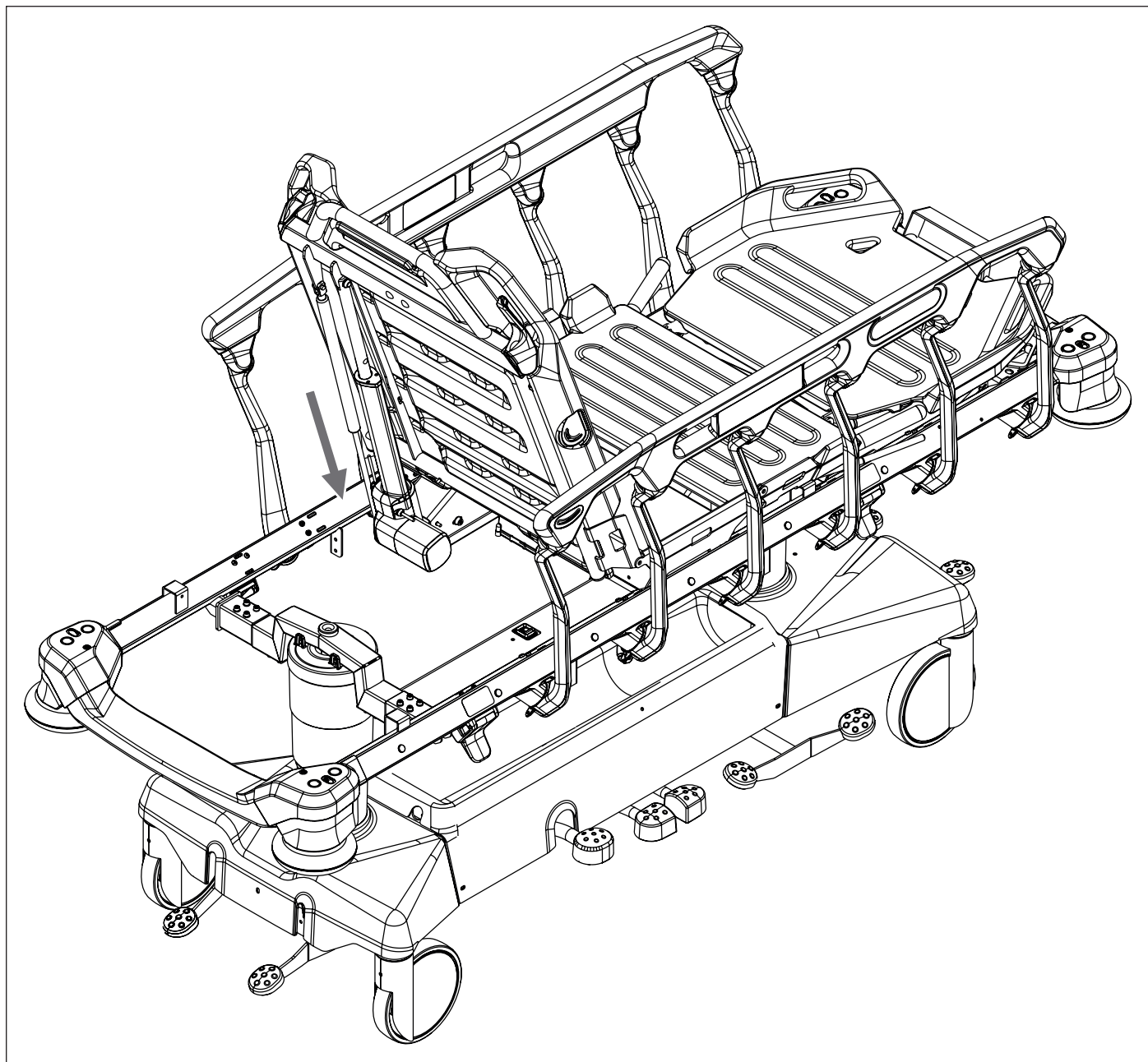


Fig. Position of serial label on the Sprint 400

1.9 Acoustic signalisation of the Sprint 400 stretcher

SOUND	MEANING
REPEATED MELODY: beep (0,15s), pause (0,14s), beep (0,15s), pause (0,14s), beep (0,15s), longer pause (2,5s)	Bed Exit Alarm
BEEP lasting 0,1s	Confirmation of the successfully activated Bed Exit Alarm Monitoring
BEEP lasting 0,1s	Confirmation of the deactivated Bed Exit Alarm Monitoring
BEEP lasting 0,15s	Confirmation of Stabilized Scales during Taring
BEEP lasting 0,4s	Confirmation of Stabilized Scales during Calibration of the Zero
BEEP lasting 0,3s	actuator stopped after overcurrent
	a button of a locked function was pressed
	transition from Trendelenburg tilt or Reverse-Trendelenburg tilt to horizontal position
REPEATED BEEP: 0,125s sound / 0,125s silence	Fault Notification (Overload, BEA on battery, low battery, loss of battery, BEA with low battery, BEA activation with no AC power supply, Taring with underload or overload)
REPEATED BEEP: 0,6s sound / 2,6s silence	STOP error (all STOP buttons are disabled)

1.10 Visual Signalling

 ACCUMULATOR CHARGE STATUS LED INDICATOR ON THE Siderail Control Panel	MEANING
lit (ON) when bed is plugged into the mains	accumulator fault: accumulator not connected or low voltage
not lit (OFF) when bed is plugged into the mains	accumulator works correctly
flashing (0,2s lit / 1,6s not lit) when bed is plugged into the mains	accumulator is charging
flashing (0,1s lit / 0,1s not lit) when bed is only accumulator powered	accumulator low (Positioning does not work. Beep sounds anytime a positioning button was pressed.)
not lit (OFF) when bed is only accumulator powered	accumulator works correctly
flashing: 0,05s lit / 0,05s not lit	calibration mode

1.11 Definitions

Adult	Patient having a physical size equal to or more than 146 cm, a mass equal to or more than 40 kg and a body mass index (BMI) equal to or more than 17 (according to IEC 60601-2-52).
Basic Stretcher Configuration	The pricelist model configuration, not including a mattress.
Clearance of Undercarriage	The height from the floor to the lowest point of the undercarriage between the castors, for the manipulation of accessories under a braked stretcher in the standard position.
Clinical Caregiver	Clinical caregiver is a clinically educated caregiver with responsibility for patient.
Duty Cycle	Cycle of operation of the motor: time of activity/time of rest.
Maximum Mass of Mobile Hospital Bed	Sum of Empty Stretcher Maximum Mass and Safe Working Load.
Non-clinical Caregiver	Non-clinical caregiver is a hospital personnel without responsibility for patient.
Reference number	Reference number depends on configuration.
Safe Working Load	The highest allowable load on the stretcher (patient, mattress, accessories and the load supported by those accessories).
Siderail Height	The height of the upper crossbar or the edges of the siderails (not the highest point of the siderail controls) from the patient surface.
Standard Stretcher Position	- The Mattress Support Platform with regard to the floor is in the middle position. - The Mattress Support Platform, including the individual parts, has to be in a horizontal (level - 0°) position. - The siderails are always locked in the upper position.
Stretcher Weight	The value depends on the product configuration, accessories or customer adjustments.
Type B Applied Parts	The degree of protection against electric shock regarding the product parts in contact with patient.
Type BF Applied Parts	The higher degree of protection against electric shock regarding the product parts in contact with patient.

1.12 Abbreviations

AC (~)	Alternating Current
CPR	Cardiopulmonary Resuscitation
dBA	Sound Intensity Unit
DC (---)	Direct Current
CUC	Configuration number
EMC	Electromagnetic Compatibility
HF	High Frequency
HPL	High Pressure Laminate
HW	Hardware
INT.	Duty Cycle
IP	Ingress Protection
IV	Intravenous
LED	Light Emitting Diodes
ME	Medical Electrical (Equipment)
MET	MET Laboratories testing and certifying for the U.S. market
ON	Activation
OFF	Deactivation
ppm	parts per million, millionth (1000 ppm = 0,1%)
REF	Reference Number (product type depending on configuration)
SN	Serial Number
SW	Software
SWL	Safe Working Load
UDI	Unique Device Identification (for medical devices)
WEEE	Waste from Electrical and Electronic Equipment

Scales Abbreviations	
Max	maximum capacity of the weighing instrument
Min	minimum capacity of the weighing instrument
e	verification scale interval
T	tare value

2 Safety Instructions



WARNING!

Risk of injury due to incorrect use!

- ▶ Staff expert assessment is needed to consider all individual cases of contraindications!



WARNING!

Risk of trapping or squeezing because of patient's body constitution disproportionate to the size of mattress support platform!



WARNING!

Risk of injury due to incorrect use!

- ▶ Certain stretcher positions are not suitable for specific diagnosis/medical conditions. Fowler position is not suitable for spinal cord injuries! Trendelenburg position is not suitable for patients with higher intracranial pressure!



WARNING!

Ensure any button of the control elements is not involuntarily pressed by persons, by the stretcher accessories, by the mattress or by the other objects!

- ▶ To avoid unintended activation of moving parts during any use of the stretcher, always check that none of the buttons on the control elements of the stretcher is pressed!
- ▶ Always ensure any control panel keyboard is not covered by anything, loaded by anything or pressed by anything!



WARNING!

Any serious incident that has occurred in relation to the device should be reported to the manufacturer and the competent authority of the Member State in which the user and/or patient is established!



WARNING!

This medical device is not intended for oxygen enriched environment!



WARNING!

This medical device is not intended for use with flammable substances!



WARNING!

This medical device is not portable medical electrical equipment!



WARNING!

Patient is allowed to use selected control elements only if hospital personnel had assessed that the patient's physical and psychological state is in accordance with use of them and only if the hospital personnel had trained the patient in accordance with the instructions for use!



WARNING!

Hospital personnel is allowed to use the weighing system (scales) for weighing patients only if they had been trained according to the instructions for use!



WARNING!

Risk of damaging the product due to incorrect maintenance!

► Only authorised and trained personnel equipped with an appropriate tool are allowed to change fuses and power supplies!



WARNING!

An additional multiple socket-outlet or extension cord shall not be connected to the medical electrical system of Sprint 400.



WARNING!

Inappropriate handling of the power supply cord of Sprint 400, e. g. by kinking, shearing or other mechanical damages is hazardous!



WARNING!

During specific investigations or treatments, the significant risks of reciprocal interference posed by Sprint 400 ME equipment may occur.



WARNING!

To avoid the risk of electric shock, this equipment must only be connected to a supply mains with protective earth.



WARNING!

Make sure the duty cycle (2 min ON/18 min OFF) is not exceeded during stretcher positioning!



WARNING!

No part of the Sprint 400 ME equipment shall be serviced or maintained while in use with a patient!



WARNING!

Patient is allowed to use selected control elements of the Sprint 400 ME equipment unless servicing and maintenance of the ME equipment is performed!



WARNING!

Patient must not perform any maintenance of the Sprint 400 ME equipment!



CAUTION!

Risk of material damage due to incorrect use!

► Avoid excessive manipulation with control elements beyond the emergency necessity! Extreme overloading will damage the control elements of the Sprint 400!

Additional Instructions for correct use:

- ▶ Follow the instructions for use carefully.
- ▶ Use the stretcher exclusively if it is in perfect working order.
- ▶ If necessary, check the stretcher functions daily or at each shift change.
- ▶ Ensure any user has read and understood this manual completely before operating the product.
- ▶ Ensure that the stretcher is operated exclusively by qualified personnel who have been trained according to the instructions for use.
- ▶ Ensure that the patient (health permitting) has been informed about the operation of the stretcher and all applicable safety instructions.
- ▶ Move the stretcher exclusively on even, hard-surfaced floors.
- ▶ Replace any damaged parts immediately with original spare parts. Contact manufacturer's service department to get the correct spare parts and necessary service support.
- ▶ Ensure that maintenance and installation are performed exclusively by qualified personnel who have been trained by the manufacturer.
- ▶ Before peak loads or unavoidable excess loads (CPR), place Mattress Support Platform in the lowest position.
- ▶ Ensure that only one adult patient uses the stretcher at any time.
- ▶ Take care to avoid injuries or squeezing when operating moving parts.
- ▶ When using infusion stands, ensure that nothing will be damaged when you move or adjust the stretcher.
- ▶ Brake the castors when the stretcher is occupied.
- ▶ Keep the Mattress Support Platform in the lowest position when the patient is unattended by healthcare personnel in order to minimize risk of patient falls.
- ▶ Ensure that Siderails are operated exclusively by healthcare personnel.
- ▶ Never use the stretcher in areas where there is a hazard of explosion.
- ▶ Ensure that parts of the stretcher intended for movement are not blocked.
- ▶ To prevent failures, use exclusively the manufacturer's original accessories and mattresses.
- ▶ Ensure that the stipulated safe working load is not exceeded.
- ▶ If the patient's condition could lead to an entrapment, leave the mattress support platform in the flat position whilst unattended.
- ▶ Adjust stretcher height when transporting the stretcher in order to facilitate overcoming possible obstacles.
- ▶ Do not modify stretcher and its components without the manufacturer's approval.
- ▶ Use the mattress exclusively as specified in this manual and in perfect working order.
- ▶ Use the mattress exclusively in its original state and do not modify it in any way.
- ▶ Have the mattress used exclusively by or under supervision of trained and qualified nursing personnel.
- ▶ Have the mattress serviced and installed exclusively by qualified personnel trained and authorised by the manufacturer.
- ▶ Do not exceed the maximum patient weight limit (see Mechanical Specifications).
- ▶ Do not use the stretcher in the case its parts have been removed unless these parts are designed to be removed.
- ▶ To avoid injury or crushing, take extra caution when operating any moving parts of the stretcher.
- ▶ Hydraulic units and gas springs contain a mineral oil. The mineral oil should not get into the sewerage because of toxicity for water organisms.
- ▶ Never place any accessories on the collapsible siderails where keyboards are located.
- ▶ Ensure that the stipulated duty cycle of motor is not exceeded.

3 Intended use of the Sprint 400 without scales (1ES4)

The intended use is the short term hospitalization of the patient in the emergency departments and one day care departments, or other applicable departments, which includes above all the following aspects:

- ▶ Patient transport on stretcher in the indoor environment and for transfers from transport vehicles and helicopters to hospital.
- ▶ Adjustment of the positions needed for the, examinations, treatments, physiotherapy, sleeping, relaxation, preventive and mobilization reasons, routine nursing.
- ▶ Providing the safe environment for the patient during all relevant procedures.
- ▶ Providing the suitable working conditions for the caregivers to perform the routine and specific tasks during the patient hospitalization.

3.1 Patient population

- ▶ Adult patients (weight ≥ 40 kg, height ≥ 146 cm, BMI ≥ 17) in the Application Environment 1 (ICU), 2 (Acute) and 5 (Ambulatory) as in IEC 60601-2-52

3.2 User population

- ▶ Adult patients (weight ≥ 40 kg, height ≥ 146 cm, BMI ≥ 17) in the emergency and one day care units (Application Environment 1, 2 and 5 as in IEC 60601-2-52)
- ▶ Clinical caregiver (nurses, doctors)
- ▶ Non-clinical caregiver (health care assistants, occupational therapists, transport personnel)
- ▶ Technical personnel, cleaning personnel

3.3 Contraindications

- ▶ The medical device is not intended for use with pediatric patients or with bariatric patients.
- ▶ The medical device is not intended for the use with patients exceeding the Maximum Patient Weight and whose body constitution is disproportionate to the size of Mattress Support Platform.
- ▶ The medical device is not intended for the long-term hospitalization with respect to dimensional parameters of the device and the used mattress.
- ▶ Certain positions are not suitable for specific diagnoses/medical conditions (e.g. spinal cord injuries vs. Fowler position, higher ICP patients vs. Trendelenburg). Staff expert assessment / nursing consideration is needed in all individual case of contraindication.

3.4 Operator

- ▶ Clinical caregiver (nurses, doctors)
- ▶ Non-clinical caregiver (health care assistants, occupational therapists, transport personnel)
- ▶ Technical personnel, cleaning personnel
- ▶ Patient (based on individual patient status assessment by caregiver the patient can utilize dedicated device functions)

4 Intended use of the Sprint 400 with scales (1ES4)

The intended use is the short term hospitalization of the patient in the emergency departments and one day care departments, or other applicable departments, which includes above all the following aspects:

- ▶ Patient transport on stretcher in the indoor environment and for transfers from transport vehicles and helicopters to hospital.
- ▶ Adjustment of the positions needed for the, examinations, treatments, physiotherapy, sleeping, relaxation, preventive and mobilization reasons, routine nursing.
- ▶ Providing the safe environment for the patient during all relevant procedures.
- ▶ Providing the suitable working conditions for the caregivers to perform the routine and specific tasks during the patient hospitalization.
- ▶ Indicative measurement of the patient weight, used as supportive feature without direct diagnostic effect. It helps staff to assess the general patient status and apply the nutrition and medications.

4.1 Patient population

- ▶ Adult patients (weight ≥ 40 kg, height ≥ 146 cm, BMI ≥ 17) in the Application Environment 1 (ICU), 2 (Acute) and 5 (Ambulatory) as in IEC 60601-2-52

4.2 User population

- ▶ Adult patients (weight ≥ 40 kg, height ≥ 146 cm, BMI ≥ 17) in the emergency and one day care units (Application Environment 1, 2 and 5 as in IEC 60601-2-52)
- ▶ Clinical caregiver (nurses, doctors)
- ▶ Non-clinical caregiver (health care assistants, occupational therapists, transport personnel)
- ▶ Technical personnel, cleaning personnel

4.3 Contraindications

- ▶ The medical device is not intended for use with pediatric patients or with bariatric patients.
- ▶ The medical device is not intended for the use with patients exceeding the Maximum Patient Weight and whose body constitution is disproportionate to the size of Mattress Support Platform.
- ▶ The medical device is not intended for the long-term hospitalization with respect to dimensional parameters of the device and the used mattress.
- ▶ Certain positions are not suitable for specific diagnoses/medical conditions (e.g. spinal cord injuries vs. Fowler position, higher ICP patients vs. Trendelenburg). Staff expert assessment / nursing consideration is needed in all individual case of contraindication.

4.4 Operator

- ▶ Clinical caregiver (nurses, doctors)
- ▶ Non-clinical caregiver (health care assistants, occupational therapists, transport personnel)
- ▶ Technical personnel, cleaning personnel
- ▶ Patient (based on individual patient status assessment by caregiver the patient can utilize dedicated device functions)

5 Intended use of the Sprint 200/400/600 mattresses

The intended use of the Sprint 200/400/600 Standard mattress, Sprint 200/400/600 Comfort mattress, Sprint 200/400/600 Advanced mattress and Sprint 200/400/600 Reactive mattress is to provide a support surface for patients by pressure redistribution designed for management of tissue loads. These mattresses are intended for LINET Sprint 200 stretchers and Sprint 400 stretchers. The mattress is recommended for use with patients who have been identified as having from low to very high-risk rating of pressure injury development, (very high risk includes patients with a history of pressure injuries or who currently have a pressure injury of any category) according to EPUAP/NPIAP/PPPIA standards for pressure injury prevention in line with local policy and guidelines.

NOTE: A full risk assessment of the patient's risk of a pressure injury development must be carried out by an appropriately trained clinician and clinical judgement must be used to identify the suitability of the product for use with the patient.

5.1 Patient population

- ▶ Adult patients (weight ≥ 40 kg, height ≥ 146 cm, BMI ≥ 17) in the Application Environment 1 (ICU), 2 (Acute) and 5 (Ambulatory) as in IEC 60601-2-52

5.2 User population

- ▶ Adult patients (weight ≥ 40 kg, height ≥ 146 cm, BMI ≥ 17) in the emergency and one day care units (Application Environment 1, 2 and 5, as in IEC 60601-2-52)
- ▶ Clinical caregiver (nurses, doctors)
- ▶ Non-clinical caregiver (health care assistants, occupational therapists, transport personnel)
- ▶ Technical personnel, cleaning personnel

5.3 Contraindications

- ▶ patients with higher weight than mattress weight limit
- ▶ patient's showing signs of pressure related tissue damage should be transferred onto an alternative support surface based on risk assessment, clinical reasoning and best clinical practice (EPUAP, NPUAP guidelines)

5.4 Operator

- ▶ Caregivers (nurses/doctors) that are fully trained in use of the mattress. Before using, the operator must familiarise themselves with all warnings and cautions contained in the instructions for use.
- ▶ Technical, transport and cleaning personnel should be fully trained in the maintenance and service of the product and must familiarise themselves with all warnings and cautions contained in the instructions for use.

6 Product Description

6.1 Hierarchy of Product Variants

1. level	Sprint 400 with 4-part mattress support platform			
2. level	Sprint 400 without scales		Sprint 400 with scales	
	Sprint 400 without i-Drive Power	Sprint 400 with i-Drive Power	Sprint 400 without i-Drive Power	Sprint 400 with i-Drive Power

6.2 Description of the Sprint 400 stretcher

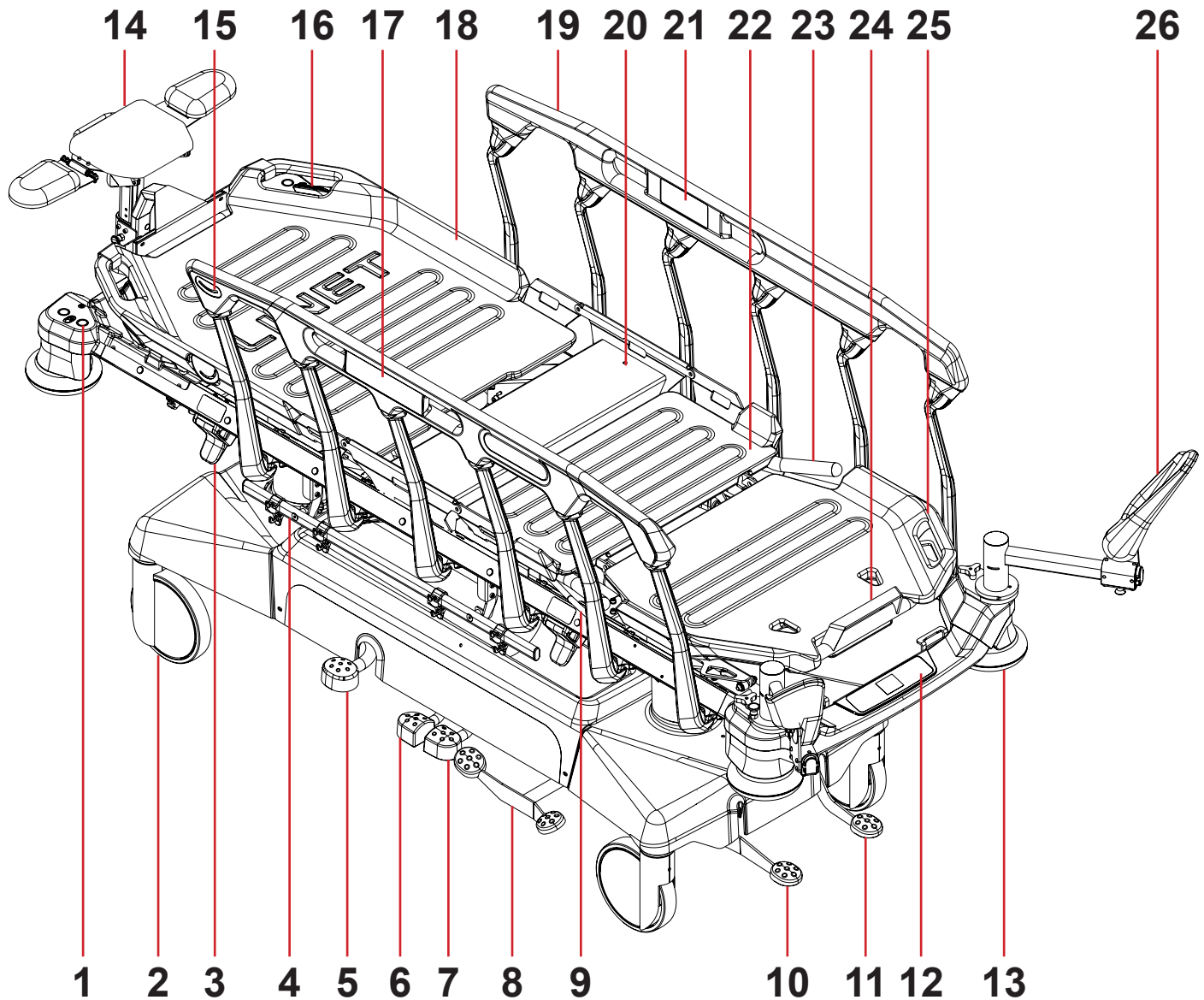


Fig. Sprint 400 stretcher overview

- | | | | |
|-----|---|-----|-----------------------|
| 1. | Bushings for Accessories | 19. | Collapsible Siderail |
| 2. | Castor | 20. | Seat Section |
| 3. | Siderail Release Lever | 21. | Patient Control Panel |
| 4. | Accessory Rail with hooks | 22. | Thighrest |
| 5. | Lifting Pedal | 23. | Thighrest Handle |
| 6. | Head End Lowering Pedal | 24. | Calfrest Handle |
| 7. | Foot End Lowering Pedal | 25. | Calfrest |
| 8. | Drive Pedal and Brake Pedal (optional) | 26. | Foot Support |
| 9. | Thighrest Latch | | |
| 10. | Brake Pedal | | |
| 11. | Drive Pedal | | |
| 12. | Scales and Bed Exit Alarm Control Panel | | |
| 13. | Corner Bumper | | |
| 14. | Head Support | | |
| 15. | Angle Indicator | | |
| 16. | Backrest Release Handle | | |
| 17. | Siderail Control Panel | | |
| 18. | Backrest | | |

7 Technical Specification

All technical data are rated data and are subject to construction and manufacturing tolerances.

7.1 Identification of Applied Parts (Type B)

These parts of the stretcher are type B Applied Parts:

- Mattress Support Platform Frame, Parts of Mattress Support Platform
- Siderails
- Head End and Foot End
- Mattress

7.2 Identification of Type BF Applied Parts

These parts of the stretcher are type BF Applied Parts:

- Siderail Control Panel
- Patient Control Panel

7.3 Mechanical Specifications of the Sprint 400 stretcher

Parameter	Value
External Dimensions in Standard Stretcher Position (length x width)	216 cm x 89 cm
Maximum Siderail Height above Mattress Support Platform	40 cm
Siderail Length (Side Protection Zone for Patient)	137 cm
Distance between siderail bars	20,6 cm
Mattress dimensions (length x width)	203 cm x 76 cm
Castor diameter	20 cm
FlexiDrive Castor diameter	16 cm
i-Drive Power Wheel diameter	21 cm
Clearance of Undercarriage in Standard Position	10,7 cm
Minimum — Maximum Mattress Support Platform Height above floor (without Mattress)	53 cm — 86 cm
Maximum Backrest Angle	90°
Maximum Thighrest Angle	40°
Maximum Calfrest Angle	25°
Trendelenburg Tilt Angle / Reverse-Trendelenburg Tilt Angle	+17°/-17°
Maximum Angle between Calfrest and Thighrest	115°
Average Stretcher Weight	165 kg
Maximum Stretcher Weight of the Sprint 400 without i-Drive Power	150 kg
Maximum Stretcher Weight of the Sprint 400 with i-Drive Power	180 kg
Stretcher Safe Working Load (SWL): ■ Patient ■ Mattress ■ Accessories and Load on the Accessories	320 kg / 705 lb 280 kg 10 kg 30 kg
Maximum Patient Weight	280 kg / 617 lb
Maximum Mass of Mobile Hospital Bed (Maximum Mass of Empty Stretcher without i-Drive Power + Safe Working Load)	470 kg
Maximum Mass of Mobile Hospital Bed (Maximum Mass of Empty Stretcher with i-Drive Power + Safe Working Load)	500 kg
Ergoframe Distances (Backrest Distance/Thighrest Distance)	7,5 cm / 3 cm
Maximum Sound Pressure Level	71 dBA

7.4 Electrical Specifications

Parameter	Value
Input Voltage and Frequency of Sprint 400 without scales or with scales	100 — 240V AC, 50/60 Hz 120V AC, 50/60 Hz
Input Voltage and Frequency of Sprint 400 with i-Drive Power	100V AC, 50/60 Hz 110V AC, 50/60 Hz 120V AC, 50/60 Hz 127V AC, 50/60 Hz 230V AC, 50/60 Hz
Maximum Power Input of Sprint 400 without scales or with scales	480 VA
Maximum Power Input of Sprint 400 with i-Drive Power	480 VA
Ingress Protection according to EN 60529 of Sprint 400	IPX4
Accumulator	Pb ACCU 2 x 12 V / 1,2 Ah / Fuse 15A
Batteries of the i-Drive Power system	3 x 12V 9Ah VRLA
Fuses in the i-Drive Power system Version 100V AC Version 110V AC Version 120V AC Version 127V AC Version 230V AC	2 x T3,15A L 250V 2 x T3,15A L 250V 2 x T3,15A L 250V 2 x T3,15A L 250V 2 x T1,6A L 250V
Electric Protection Class of Sprint 400	Class I (with type B Applied Parts and type BF Applied Parts)
Duty Cycle	max. 2 minutes ON / 18 minutes OFF
Plug Type of the Power Supply Cord	E/F (CEE 7/7)

7.5 Environment Conditions of the Sprint 400



WARNING!

Risk of damaging the product due to incorrect environment conditions!

► Do not use the Sprint 400 stretcher under the environmental conditions outside of those specified in the Environment Conditions of the Sprint 400 chapter!



CAUTION!

Risk of damaging the product if its packaging is exposed to environmental conditions outside of those specified in the Environment Conditions of the Sprint 400 chapter!

Parameter	Value
Use Conditions	
Ambient Temperature	10°C — 40°C
Relative Humidity	30% — 75 %
Atmospheric Pressure	795 — 1060 hPa
Storage and Transport Conditions	
Ambient Temperature	-20°C — 50°C
Relative Humidity	20% — 90 %
Atmospheric Pressure	795 — 1060 hPa

7.6 Electromagnetic Compatibility of the Sprint 400 stretcher

Stretcher is intended for hospitals except for near active HF surgical equipment and the RF shielded room of a medical system for magnetic resonance imaging, where the intensity of EM disturbances is high.

Stretcher has defined no essential performance.



WARNING!

It is recommended to avoid the use of this device next to or in block with other device, because it could lead to improper operation. If such use is needed, this device and the other equipment should be under surveillance to verify proper operation.

List of used cables:

- **Mains cable**, maximum length 5 m



WARNING!

Use of the accessories, converters and other cables, than specified and provided by manufacturer of this stretcher could lead to increase of electromagnetic emission or lower the electromagnetic immunity of this stretcher and lead to improper operation.



WARNING!

Mobile RF communication device (including end use devices like antenna cables and external antenna) should not be used closer than 30 cm (12 inches) from any part of this Sprint 400 stretcher, including cables specified by manufacturer. Otherwise this could lead to deterioration of functionality of this stretcher.



WARNING!

Do not overload the stretcher (SWL), respect the duty cycle (INT. on the serial label) and consider 24 Maintenance chapter in order to maintain the basic safety with regard to electromagnetic disturbances for the expected service life.

7.6.1 Manufacturer instructions - electromagnetic emissions

Emission Test	Compliance
RF emissions CISPR 11	Group 1
RF emissions CISPR 11	Class A
Harmonic emissions IEC 61000-3-2	Class A
Voltage fluctuations / flicker emissions IEC 61000-3-3	Complies

NOTE The EMISSIONS characteristics of this equipment make it suitable for use in industrial areas and hospitals (CISPR 11 class A). If it is used in a residential environment (for which CISPR 11 class B is normally required) this equipment might not offer adequate protection to radio-frequency communication services. The user might need to take mitigation measures, such as relocating or re-orienting the equipment.

7.6.2 Manufacturer instructions - electromagnetic susceptibility

Immunity Tests	Compliance level
Electrostatic discharge (ESD) IEC 61000-4-2	± 8 kV for contact discharge ± 15 kV for air discharge
Radiated RF IEC 61000-4-3 Proximity fields from RF wireless communications equipment IEC 61000-4-3	3 V/m 80 MHz – 2,7 GHz 80 % AM at 1 kHz See Table 1
Fast electrical transients / burst IEC 61000-4-4	±2 kV for power line repetition frequency 100 kHz
Surge IEC 61000-4-5	± 1 kV Line-to-line ± 2 kV Line-to-ground
Conducted RF IEC 61000-4-6	3 V (0,15 MHz – 80 MHz) 6 V in ISM bands between 0,15 MHz and 80 MHz 80 % AM at 1 kHz
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	30 A/m
Voltage dips, short interruptions on power supply input lines IEC 61000-4-11	0 % UT; 0,5 cycle At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315° 0 % UT; 1 cycle and 70 % UT; 25/30 cycle Single phase: at 0° 0 % UT; 250/300 cycle

Table 1 - IMMUNITY to RF wireless communications equipment

Test frequency (MHz)	Band (MHz)	Service	Modulation	Immunity Test Level V/m
385	380 - 390	TETRA 400	Pulse modulation 18 Hz	27
450	430 - 470	GMRS 460, FRS 460	FM ± 5 kHz deviation 1 kHz sine	28
710 745 780	704 - 787	LTE band 13, 17	Pulse modulation 217 Hz	9
810 870 930	800 - 960	GSM 800/900, TETRA 800, iDEN 820, CDMA 850, LTE band 5	Pulse modulation 18 Hz	28
1 720 1 845 1 970	1 700 - 1 990	GSM 1800; CDMA 1900; GSM 1900; DECT; LTE band 1, 3, 4, 25; UMTS	Pulse modulation 217 Hz	28
2 450	2 400 - 2 570	Bluetooth, WLAN, 802.11 b/g/n, RFID 2450, LTE band 7	Pulse modulation 217 Hz	28
5 240 5 500 5 785	5 100 - 5 800	WLAN 802.11 a/n	Pulse modulation 217 Hz	9

NOTE There are applied no deviations to requirements of IEC 60601-1-2 ed. 4.1.

NOTE There are no known other measures for keeping the basic safety based on EMC phenomena.

8 Use and Storage Conditions



DANGER!

Danger to life due to electric shock!

To ensure the stretcher's class I protection against electric shocks:

- ▶ Ground the mains.
- ▶ Use exclusively Hospital Grade or Hospital Only receptacles for grounding.

Sprint 400 is designed for use in rooms for medical purposes. Electrical installations connected to the Sprint 400 must therefore meet local norms laying down the necessary conditions for electrical installations.

To increase the safety of electrical equipment:

- ▶ Disconnect the Sprint 400 from the mains in exceptional cases (i.e. lightnings, earthquake).

Respect values of the parameters connected with environment conditions in the chapter Technical Specification during use and storage of the product.

Sprint 400 is not suitable for indoor environments containing flammable gases (except oxygen cylinders).

Sprint 400 is not suitable for continuous operation. Duty cycle equals to 2 minutes in operation during 20 minutes.

8.1 Removing the Stretcher from Service

Remove the stretcher from use as follows:

- ▶ Disconnect the stretcher from the mains.
- ▶ Disconnect the ground wire.
- ▶ Remove accessories.

To prevent damage during storage:

- ▶ Pack or cover the stretcher and accessories.
- ▶ Ensure the compliance with the allowed storage conditions.

9 Scope of Delivery and Product Variants

9.1 Delivery

- ▶ Upon receipt, check that the shipment is complete as specified on the delivery note.
- ▶ Notify the carrier and supplier of any deficiencies or damages immediately as well as in writing or make a note on the delivery note.

9.2 Scope of Delivery

- Sprint 400 Emergency Stretcher
- Instructions for Use

9.3 Sprint 400 Variants

Basic Configuration:

- 4-part Mattress Support Platform
- Siderails
 - Head and Foot Siderail Release Mechanism
- 4x Tente 200 mm castors
 - Directional Castor at Head End
 - Directional Castor at Foot End
- Brakes from Head End and from Foot End
- Undercarriage Cover
- Angle Indicators

Optional stretcher features:

- Handles
 - 1x pair of Foldable handles (Head End)
 - 1x pair of Foldable handles (Foot End)
 - 1x pair of Foldable Driving Handles (Foot End)
 - 1x pair of Foldable Infusion Stands/Foldable Pushing Handles (IV&Drive) (Head End or Foot End)
 - 1x pair of Foldable Infusion Stands/Foldable Pushing Handles with i-Drive Power Control Panel (Head End or Foot End)
 - 1x pair of Removable handles
 - 1x pair of Fixed handles
 - 1x pair of Mobi-Lift handles
- Undercarriage
 - Brakes on side
 - Fifth Castor (FlexiDrive)
 - Trendelenburg Pedal on Head End
- Accessory Rails with plastic hooks
 - on side
 - at Head End
 - at Foot End
- DIN Rails
 - on side
- Holders for Accessories
 - 1x Holder of the Oxygen Bottle Holder (at head end)
 - 2x Holder of the Paper Roll Holder (at head end)
 - 2x Holder of the Paper Roll Holder (at foot end)
- Potential Interconnection
 - with Potential Interconnection
- Scales
 - with Scales and Bed Exit Alarm Monitoring
- i-Drive Power
 - with i-Drive Power

10 Putting into Service



WARNING!

Risk of injury when working on the stretcher!

- ▶ Ensure that the castors are locked prior to putting into service and maintenance.



CAUTION!

Material damage due to incorrect putting into service!

- ▶ Ensure that putting into service is performed exclusively by manufacturer's customer service or trained hospital personnel.



CAUTION!

Material damage due to incorrect use!

- ▶ Do not use pedals for lifting or lowering if the stretcher undercarriage is not in horizontal position!

NOTE For safe, easy handling, LINET ® recommends having two technicians put the stretcher into service.

Set up the stretcher as follows:

- ▶ Unpack the stretcher.
- ▶ Check the delivery (see Scope of Delivery and Product Variants).
- ▶ Ensure that all of the required mechanisms are available on site.
- ▶ Remove isolating foil from the accumulator box.
- ▶ Raise siderails up.
- ▶ Install accessories.
- ▶ Set up the stretcher exclusively on a suitable floor surface (see Transport).
- ▶ Ensure that the Power Supply Cord is not in collision with something and it is not stretched when adjusting the stretcher.
- ▶ Check that the plug of the Power Supply Cord is inserted correctly into the mains.
- ▶ Do not leave any extension cords or power strips loose on the floor.
- ▶ Ensure that all of the required mechanical and electrical prevention mechanisms are available on site.
- ▶ There is no mains switch on the stretcher, i.e. the Power Supply Cord is the only means to isolate the stretcher from the mains. Ensure that the Power Supply Cord is always accessible.
- ▶ Have the separable plug of the Power Supply Cord changed and maintained exclusively by qualified and trained service technicians authorised by the manufacturer if the Power Supply Cord is damaged or most likely damaged.

HOOKS ON THE ACCESSORY RAIL (optional)

If the stretcher is equipped with accessory rail on the head end / foot end hooks on the accessory rail are delivered in the safety position. In order to use the hooks remove them and place them on the accessory rail from the outer side (reversely).

10.1 Mattress Support Platform

Sprint 400 has mattress support platform with four sections.

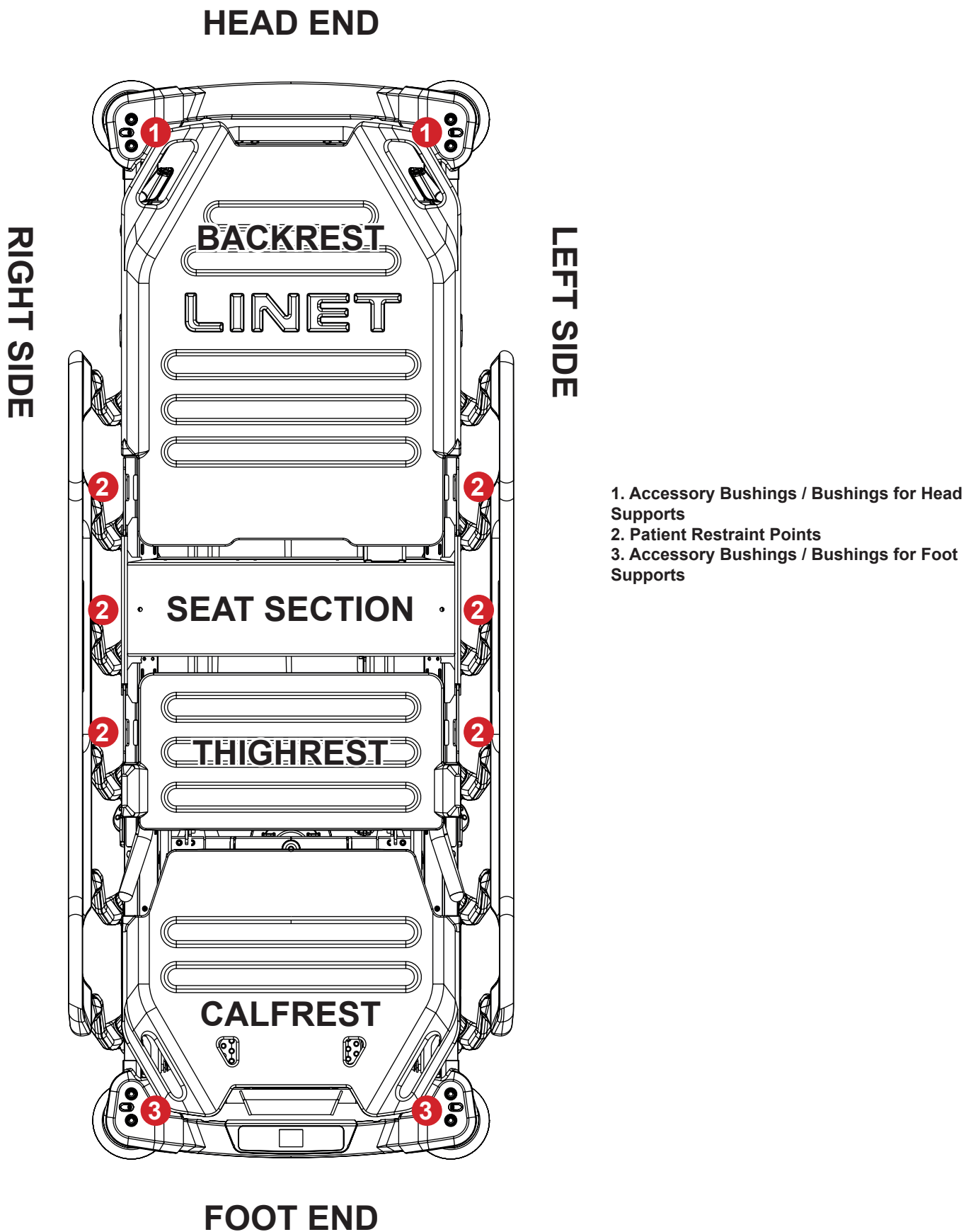


Fig. 4-part Mattress Support Platform

10.1.1 Removal of the Plastic Mattress Support Platform Covers

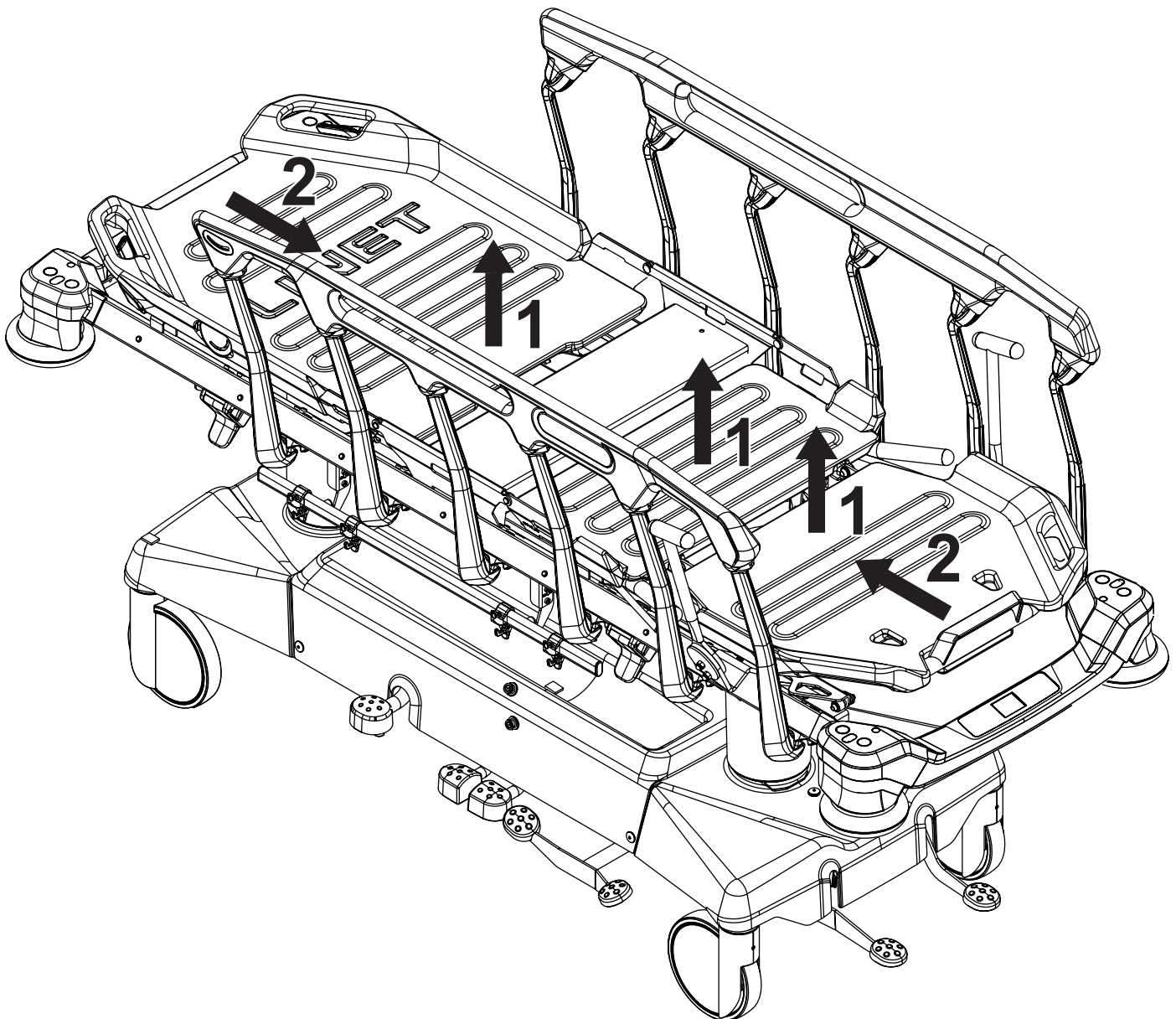


Fig. Instructions to remove the plastic mattress support platform covers

To remove Backrest plastic cover:

- ▶ Grasp the end of the Backrest plastic cover next to the Seat section and lift the Backrest plastic cover up.
- ▶ Pull the Backrest plastic cover towards the Seat section.

To remove Thighrest plastic cover:

- ▶ Lift the Thighrest plastic cover up.

To remove Calfrest plastic cover:

- ▶ Grasp the end of the Calfrest plastic cover next to the Thighrest plastic cover and lift the Calfrest plastic cover up.
- ▶ Pull the Calfrest plastic cover towards the Thighrest plastic cover.

10.1.2 Insertion of the Plastic Mattress Support Platform Covers

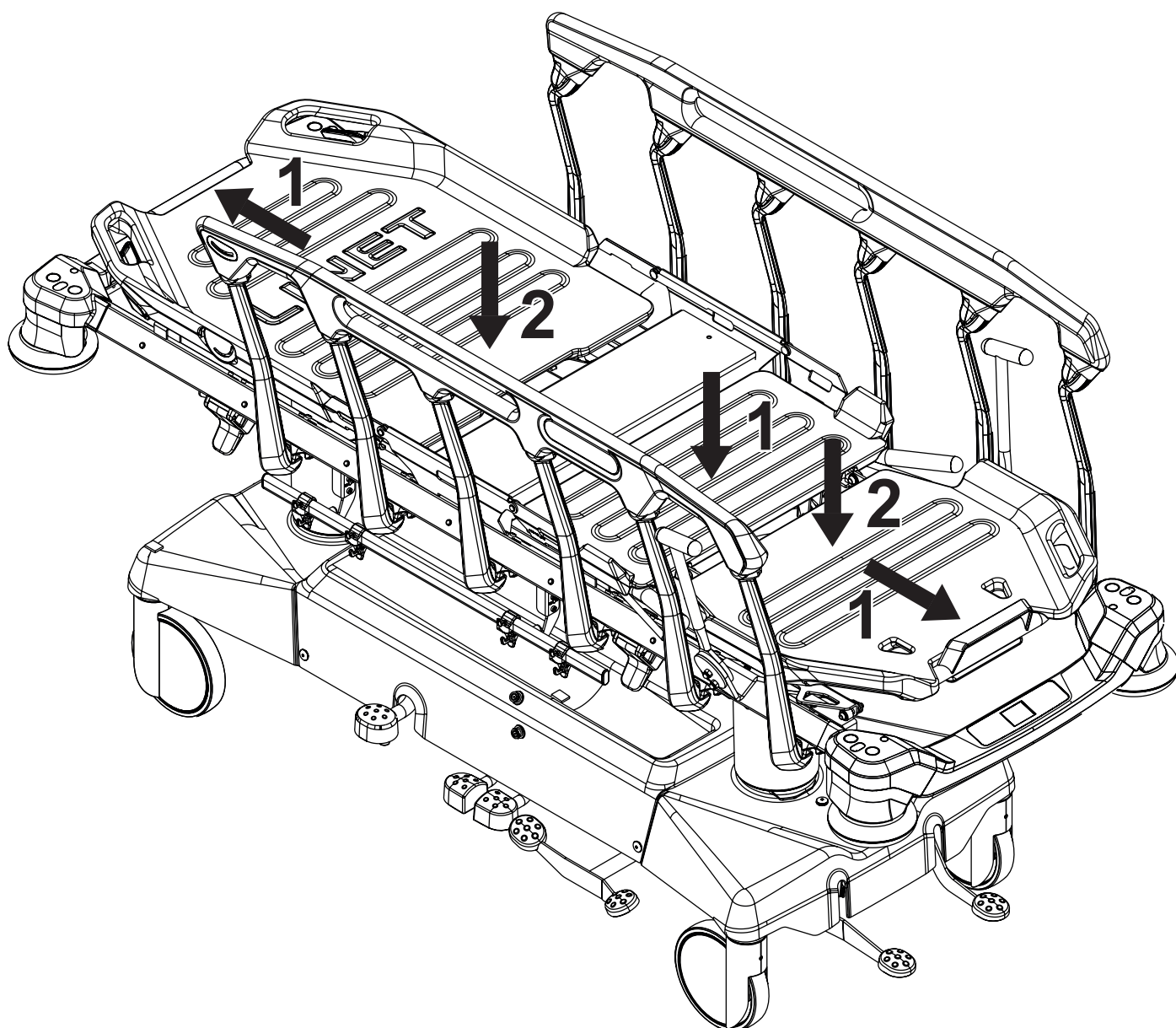


Fig. Instructions to insert the plastic mattress support platform covers

To insert Backrest plastic cover into the mattress support platform:

- ▶ Insert the upper end of the Backrest plastic cover into the Backrest upper part.
- ▶ Push the Backrest plastic cover down to fix it on the Backrest.

To insert Thighrest plastic cover into the mattress support platform:

- ▶ Push the Thighrest plastic cover down to fix it on the Thighrest.

To insert Calfrest plastic cover into the mattress support platform:

- ▶ Insert the lower end of the Calfrest plastic cover into the Calfrest lower part.
- ▶ Push the Calfrest plastic cover down to fix it on the Calfrest.

10.1.3 Patient Restraint Points

Eight Patient Restraint Points are located on the parts of the 4-part mattress support platform.

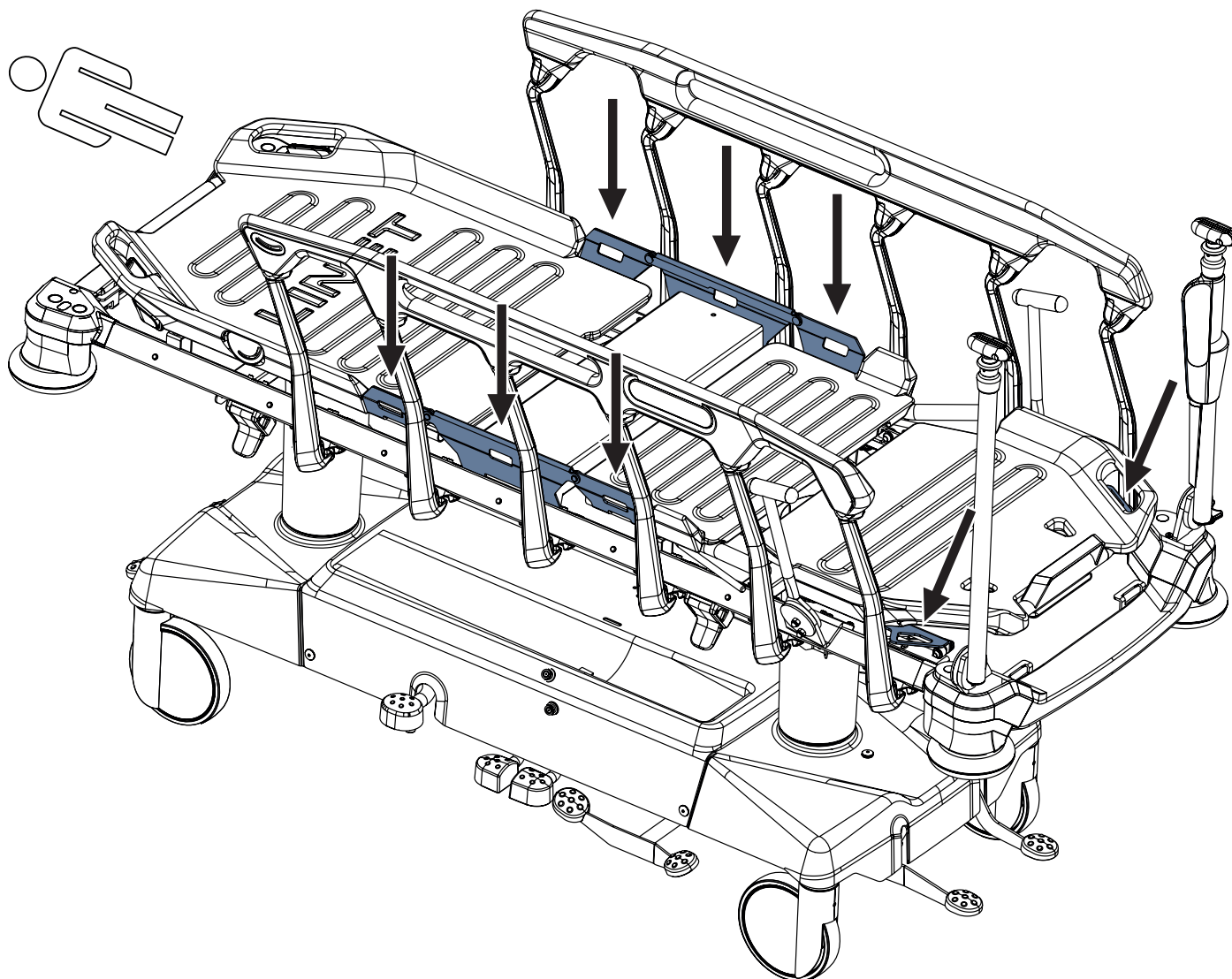


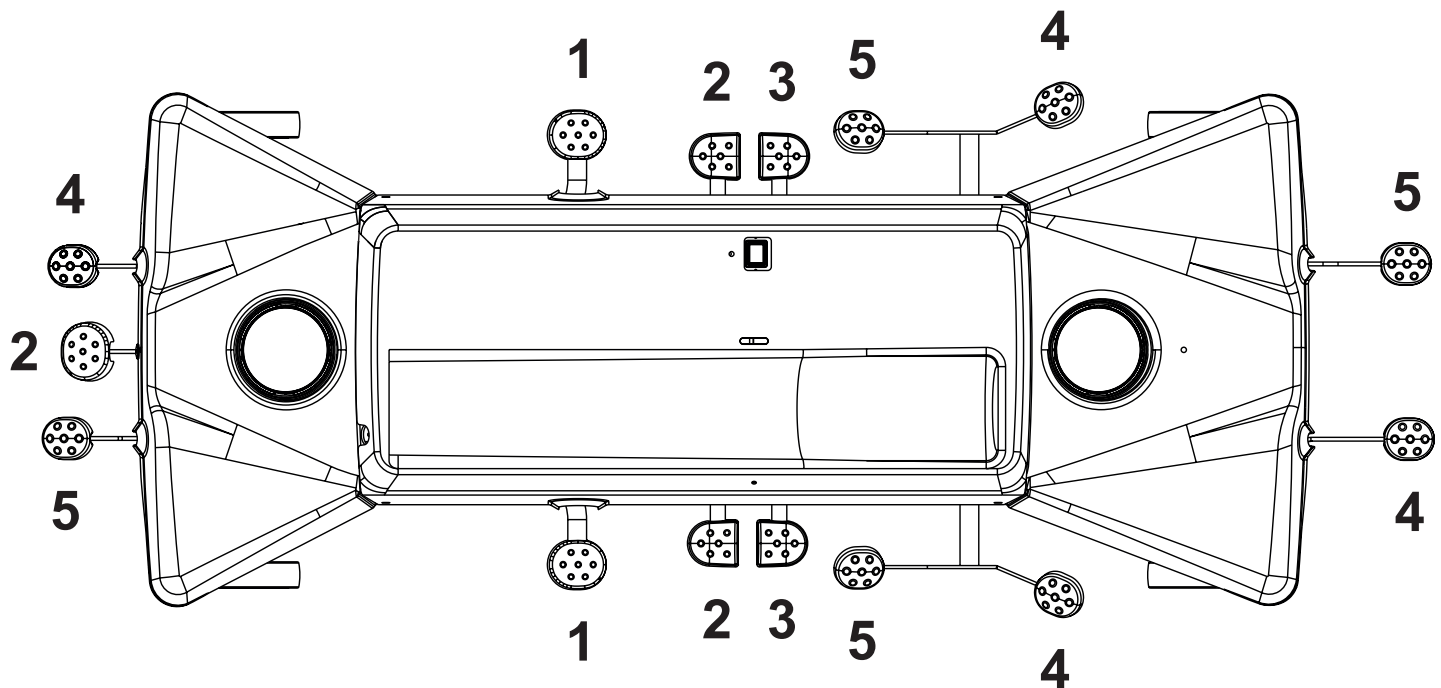
Fig. Eight Patient Restraint Points (4-part mattress support platform)

10.2 Pedals

Undercarriage of the Sprint 400 stretcher is equipped with 10 pedals.

It can optionally be equipped with additional 5 pedals:

- ☐ 2 pedals for driving on stretcher sides
- ☐ 2 pedals for braking on stretcher sides
- ☐ 1 head end lowering pedal at stretcher head end



1. Lifting Pedal
2. Head End Lowering Pedal
3. Foot End Lowering Pedal
4. Brake Pedal
5. Drive Pedal

10.3 Potential Interconnection (optional)

The stretcher is equipped with a standard protective connector. This connector is used for potential equalisation between the stretcher and any intravascular or intracardiac device connected to the patient to protect the patient from static electric shocks.

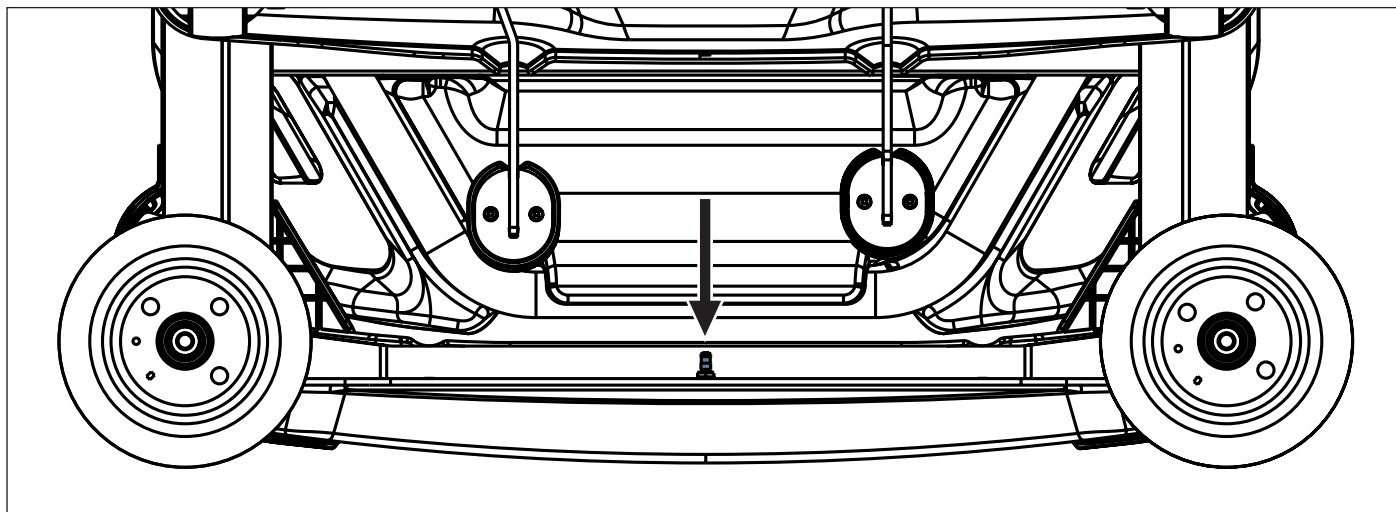


Fig. Potential equalisation male connector at head end from bottom view

Use equalisation connector if:

- the patient is connected to any intravascular or intracardiac device.

Before connecting the patient to an intravascular/intracardiac device:

- ▶ Connect the ground wire of the device to the potential equalisation connector on the stretcher on which the patient in question is lying.
- ▶ Use a standard hospital connector.
- ▶ Make sure that the connectors match.
- ▶ Make sure that there is no possibility for inadvertent disconnection.

Before moving the stretcher:

- ▶ Disconnect the patient from the intravascular or intracardiac device.
- ▶ Disconnect the potential equalisation connector.

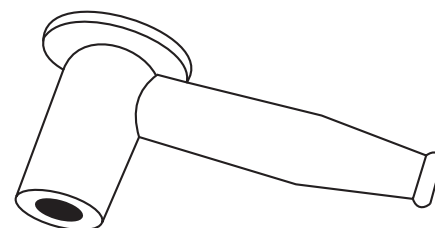


Fig. Potential equalisation female connector

10.4 Before Use

Prepare the stretcher for use as follows:

- ▶ Perform bleeding procedure of hydraulic units in the highest stretcher position by pressing lifting pedal 10 times.
- ▶ Raise the Mattress Support Platform to the highest position.
- ▶ Lower the Mattress Support Platform to the lowest position.
- ▶ Tilt the Mattress Support Platform to Trendelenburg position.
- ▶ Position the Mattress Support Platform to Reverse-Trendelenburg tilt.
- ▶ Check that the castors as well as main brake work correctly.
- ▶ Check that the Siderails function properly.
- ▶ Dispose of all packaging (see „25 Disposal of the Sprint 400 stretcher“ on the page 154).

10.5 Transport

For a safe transport, observe the following:

- ▶ Ensure that no cables are run over when moving a stretcher.
- ▶ Ensure that the castors are not braked before moving the stretcher.
- ▶ Adjust stretcher height to at least 20 cm below maximum height.
- ▶ Push stretcher by handles on Head End or Foot End.
- ▶ Move the stretcher exclusively on suitable floor surfaces.
- ▶ Ensure the stretcher is braked when it should not move (see „14.2 Castor Control“ on the page 58).
- ▶ For longer distances, ensure that the castor steering function is activated.
- ▶ Ensure that the brakes are released before moving the stretcher.

Suitable surfaces:

- Tile
- Hard linoleum
- Poured flooring

Unsuitable surfaces:

- Too soft, unsealed or defective flooring
- Soft wooden flooring
- Soft and porous stone floors
- Carpeted floors with underlay
- Soft linoleum

Outdoor transport (especially from heliport) is allowed under these conditions:

Surface of an outdoor environment is not too soft and too segmented and too coarse but hard and flat as required for indoor use.

10.5.1 Transport Position



WARNING!

Hospital staff is responsible for assessing the suitable adjustment of the mattress support platform in accordance with patient's state and needs!



WARNING!

Placement of the accessories and of the compatible medical devices must not cause any hazard for patient or for hospital staff or for the other persons and any damage to the product or to the surroundings during transport of the Sprint 400 stretcher!



WARNING!

Siderails in down position can cause patient's fall from the Sprint 400 stretcher during transport of the Sprint 400 stretcher!

Transport Position of the Sprint 400 stretcher:

- ▶ siderails up and locked
- ▶ height of the mattress support platform in accordance with ergonomically suitable drive
- ▶ not tilted mattress support platform
- ▶ parts of the mattress support platform adjusted according to the patient's state and needs
- ▶ Power Supply Cord disconnected from the mains power and correctly wound around the Accessory Rail at head end of the Sprint 400
- ▶ handles intended for transport (Foldable Handles or Fixed Handles or IV&Drive Infusion Stands/Pushing Handles) raised in working position

10.6 Firmware

The stretcher includes firmware that can be updated only by an authorised service technician.

This firmware is protected against unauthorised access by mechanical housing (tool is needed to access), by seal (components with processor are sealed), by exclusive compatibility with an authorised software tool and by check of compatibility of the new firmware with the stretcher.

11 Power Supply Cord



WARNING!

Where the integrity of the external protective conductor in the installation or its arrangement is in doubt

- Use the other power source that is not in doubt.



WARNING!

Inappropriate handling of the power supply cord, e. g. by kinking, shearing or other mechanical damages is hazardous!



WARNING!

When routing Power Supply Cord in a Sprint 400 avoid squeezing the cable between parts of the Sprint 400!



WARNING!

An additional multiple socket-outlet or extension cord shall not be connected to the Sprint 400!



WARNING!

It is not possible to use Bed Exit Alarm Monitoring when Sprint 400 with scales is disconnected from the mains power! No Bed Exit Alarm can be triggered when Sprint 400 with scales is disconnected from the mains power!



WARNING!

Use exclusively the power supply cord in perfect condition!

- Ensure the power supply cord are not damaged before each use!



WARNING!

Power Supply Cord must not be tightened or stretched during use!

- Ensure the Power Supply Cord hangs loosely between the Sprint 400 and the wall where the Power Supply Cord is connected to the mains.

Sprint 400 stretcher is ME equipment with non-detachable Power Supply Cord.

Attachment plug is means of connecting and disconnecting Sprint 400 from the mains.

Hook for hanging Power Supply Cord is means of hanging the Power Supply Cord at stretcher head end.

Power Supply Cord should be safely wound around the Accessory Rail or safely placed in the Storage Box when it is not connected to the mains.

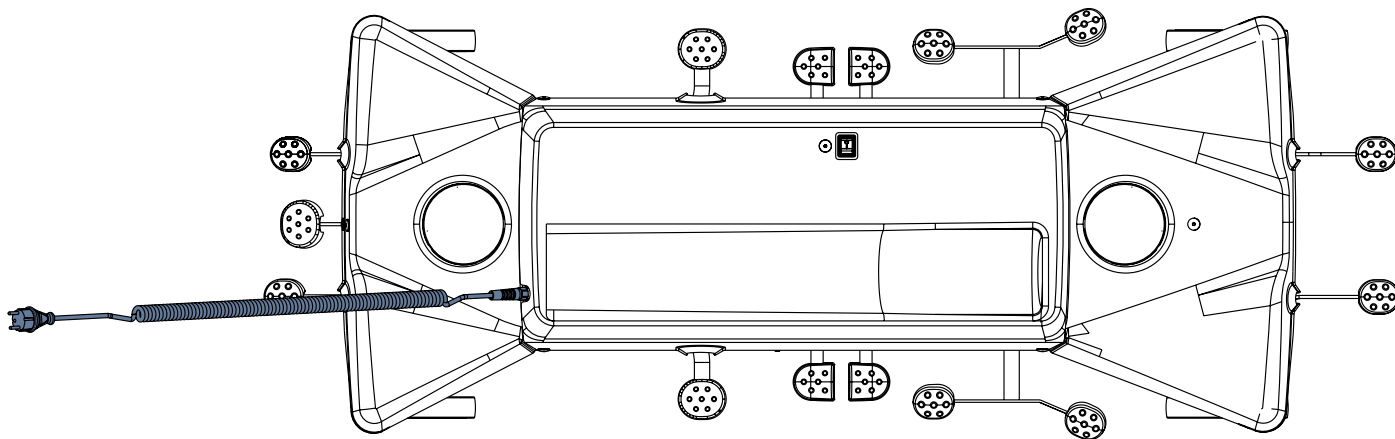


Fig. Power Supply Cord on the head end of the Sprint 400

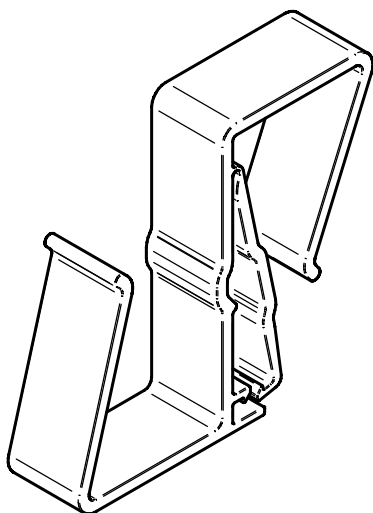


Fig. Hook for hanging Power Supply Cord

11.1 Connection of the Power Supply Cord



WARNING!

Do not expose the place of connection to liquids! Use only a damp cloth or a wet wipe to clean the Power Supply Cord and the place of connection of the Power Supply Cord to the undercarriage cover!



WARNING!

Ensure the stretcher height adjustment will not damage the Power Supply Cord connected to the Sprint 400!



WARNING!

Power Supply Cord must not be wound around the Accessory Rail at head end of the Sprint 400 before and when the Power Supply Cord is connected to the mains power! Use the Hook for hanging Power Supply Cord to hang Power Supply Cord at stretcher head end.

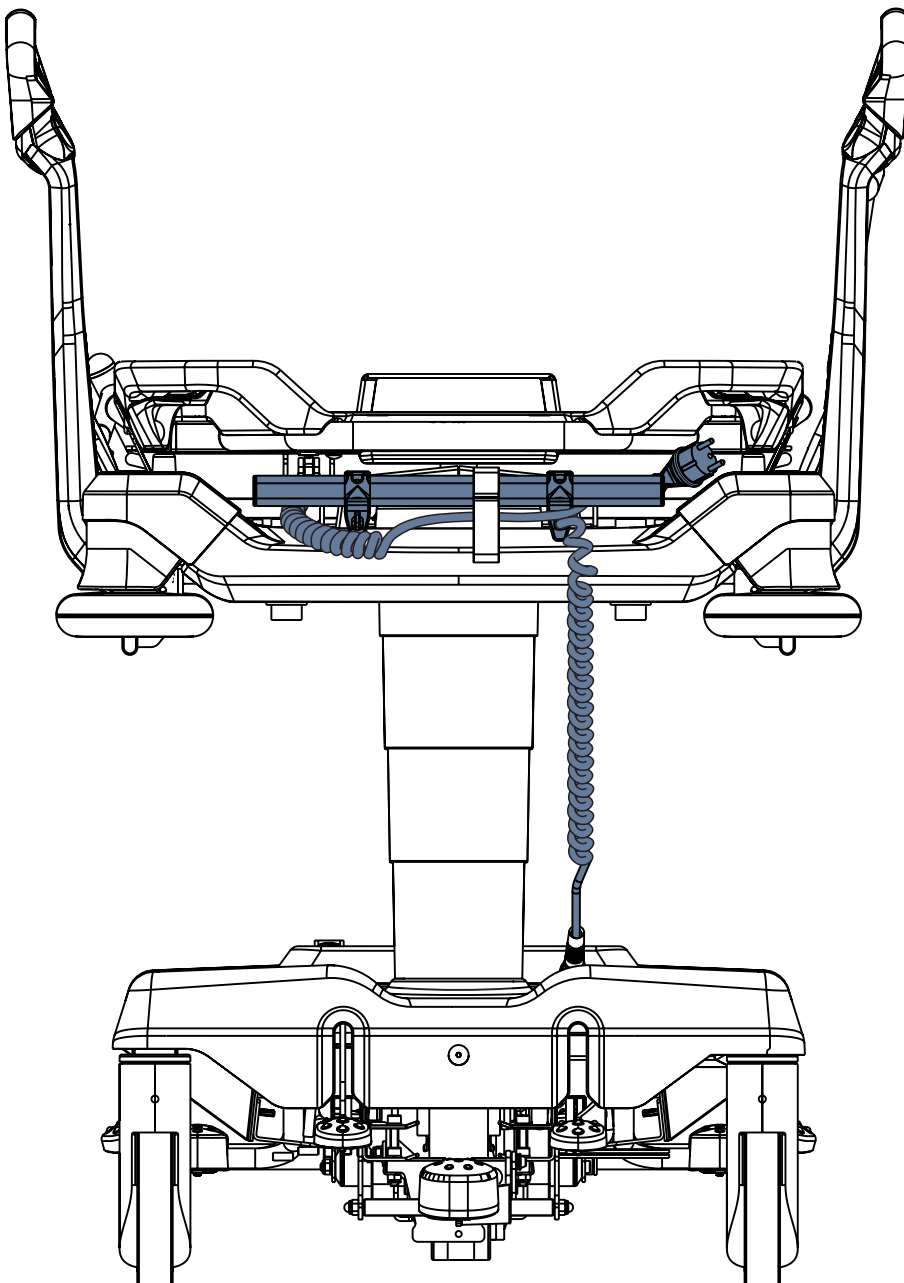


Fig. Power Supply Cord leading from the undercarriage cover and wound around the Accessory Rail

To place Power Supply Cord to safety position (when Bed Exit Alarm Monitoring is not required):

- ▶ Wind the Power Supply Cord loosely around the Accessory Rail at head end of the Sprint 400 as on the picture above.

To connect Sprint 400 to the mains power:

- ▶ Unwind the whole Power Supply Cord from the Accessory Rail at head end of the Sprint 400.
- ▶ Connect the attachment plug of the Power Supply Cord to the mains power.

To disconnect Power Supply Cord from the Sprint 400:

- ▶ Disconnect the Power Supply Cord from the mains.

11.2 Indication of the stretcher connected to the mains

Connection to the mains power is visually indicated on the display of Scales and Bed Exit Alarm Control Panel and on the Siderail Control Panel.

Indicator	Meaning
	Sprint 400 with scales is connected to the mains.
	Sprint 400 with scales is disconnected from the mains.
	Sprint 400 is connected to the mains.
	Sprint 400 is disconnected from the mains.

12 Accumulator



WARNING!

Risk of material damage to the stretcher accumulator due to incorrect charging!

► When the stretcher is not connected to the mains and accumulator is not sufficiently charged, all electrical functions of the stretcher are blocked! After some long period without charging the accumulator, the accumulator will be deeply discharged and lose its full functionality!



WARNING!

Risk of damaging the product due to incorrect maintenance!

► Only authorised and trained service technician is allowed to replace the stretcher accumulator! Shape of the accumulator box does not allow different ways of insertion.

Purpose

The accumulator serves as a backup during power failures or for emergency stretcher positioning.

- Use only accumulator approved by the manufacturer.
- Check the functionality of the accumulator at least once a month and have the accumulator changed if necessary.

The manufacturer will assume no responsibility for any damage to the stretcher or the accumulator caused by:

- non-observance of the manufacturer's instructions in the instructions for use.
- using accumulator not approved by the manufacturer.

Warranty

The manufacturer provides a **6-month** warranty for the full function of the accumulator.

Stretcher Accumulator lifetime could be up to 5 years if operated under optimum conditions.

Accumulator capacity can be significantly reduced if:

- too high ambient temperature
- many accumulator charge/discharge cycles
- recurrence of deep discharge
- stretcher is often powered only by the accumulator

Charging

The accumulator supplied with the stretcher is delivered insufficiently charged.

Charging of the accumulator before use of the stretcher takes approximately 4 hours.

Charging of the accumulator runs automatically when the power supply cord is connected to the mains.

To charge the accumulator:

- connect the stretcher to the mains.

Storage

For declared lifetime period of leaded accumulators is recommended during storage:

- To prevent accumulator from deep discharging and to keep accumulator at least partly charged by regular recharging.
- To store accumulator on the dry places with temperature from 10°C to 40°C.
- To prevent accumulators from being in the sunshine.

Signalling

The corresponding indicator on the Siderail Control Panel indicates the accumulator charge status.

12.1 Accumulator Activation

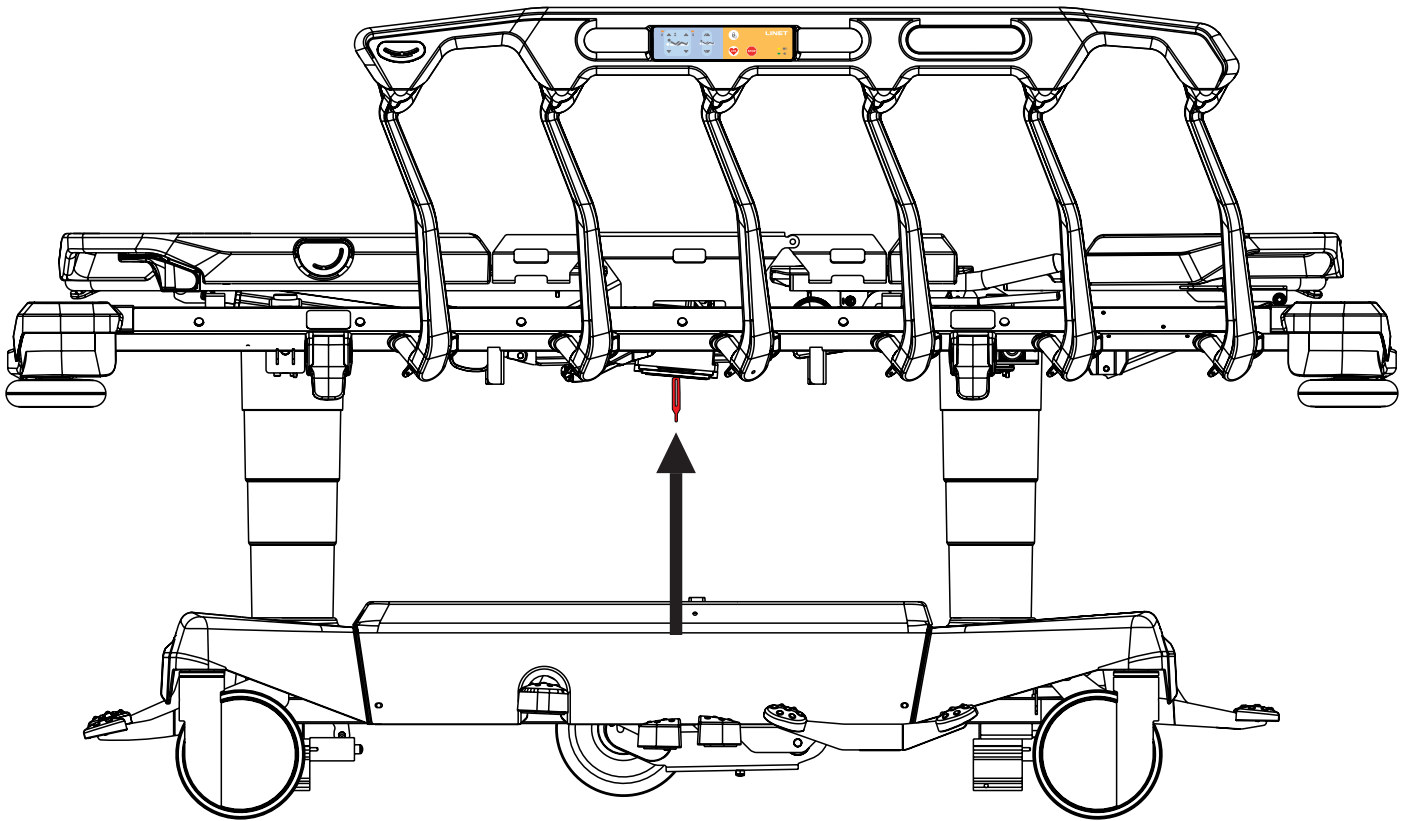


Fig. Position of Isolating Foil under the Seat section

12.1.1 Removing the Isolating Foil

To remove isolating foil:

- ▶ Remove isolating foil from the accumulator box under the Seat section by pulling the strap.
- ▶ Check if isolating foil is complete and undamaged as shown in Shape of Isolating Foil figure.
- ▶ If isolating foil is damaged, contact the manufacturer's service department immediately.
- ▶ Set the time on the Scales and Bed Exit Alarm Monitoring Control Panel if Sprint 400 is equipped with scales.

NOTE Isolating Foil is sharp-edged. Remove it carefully not to cut yourself.

12.1.2 Replacing the accumulator



CAUTION!

Damage to the stretcher due to incorrect accumulator replacement!

- ▶ Have the accumulator replaced exclusively by qualified personnel.
- ▶ Exclusively use the accumulator approved by the manufacturer.

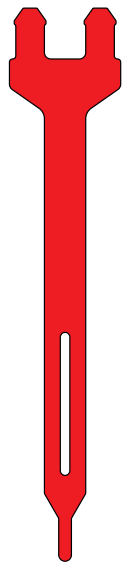


Fig. Shape of Isolating Foil



CAUTION!

Material damage due to overheating!

If the accumulator is faulty, degassing may occur. In rare cases this might cause deformations of the accumulator case, control panel housing or cable.

- ▶ Stop using the stretcher immediately.
- ▶ Inform the manufacturer's service department.



CAUTION!

Risk of reducing accumulator durability due to incorrect use!

- ▶ Use stretcher on accumulator only in crisis situations (e.g.: power blackout, patient complications during transport, etc.)
- ▶ After reconnecting stretcher to the mains, charge accumulator to full capacity.
- ▶ Have the accumulator replaced exclusively by a qualified service organisation of the manufacturer.

Faulty accumulator

The accumulator is regarded as faulty if at least one of the following conditions applies:

- ▶ Accumulator charging constantly
- ▶ Low voltage of accumulator
- ▶ Low charging current of accumulator

This status is indicated by the **Accumulator Charge Status LED Indicator being constantly lit**. These statuses are summarised and written to black box in the control unit.

To cancel this status:

- ▶ Press **STOP** button.

Discharged accumulator

This status is indicated by the **Accumulator Charge Status LED Indicator flashing quickly**.

This status will be cancelled automatically when the stretcher switches to sleep mode (stretcher is disconnected from the mains, no button is pressed).

To cancel this status:

- ▶ Press **STOP** button.

Disconnected accumulator

Battery Status on display of the Scales and Bed Exit Alarm Monitoring Control Panel	Indication
Disconnected accumulator	NO BATTERY

12.1.3 Pop-up windows connected with Battery Capacity Status

Pop-up windows are indicated on the display of Scales and Bed Exit Alarm Control Panel.

Status (Pop-up window)	Meaning	How to change the status
	Operator tries to activate the Bed Exit Alarm Monitoring when battery is critically discharged or disconnected.	Connect the Sprint 400 stretcher to the mains power, wait and activate the Bed Exit Alarm Monitoring.

13 Batteries of the i-Drive Power system



WARNING!
Risk of damaging the product due to incorrect maintenance!
► Only authorised and trained service technician is allowed to change the batteries and fuses of the i-Drive Power system!

14 Manipulation


WARNING!
Risk of injury when adjusting the stretcher!

- ▶ Ensure that there are no body parts between the mattress support platform elements and the mattress support platform frame when adjusting the stretcher.
- ▶ Ensure that there are no body parts between the siderails and the mattress support platform frame when adjusting the mattress support platform position and siderail position.
- ▶ Ensure that there are no body parts below the Mattress Support Platform frame before adjusting the stretcher.
- ▶ Do not position Sprint 400 ME equipment to make it difficult to operate the attachment plug of the power supply cord!


WARNING!
Risk of injury when sitting on the foot end!

- ▶ Extra care must be taken when sitting on the foot end of the stretcher!


WARNING!
Risk of injury when getting in and getting out of the stretcher!

- ▶ Patient is allowed to get into the stretcher or get out of the stretcher just from the right side or left side of the stretcher!


CAUTION!
Risk of damaging the stretcher when adjusting the mattress platform position and siderail position!

- ▶ Avoid any collision during stretcher positioning and siderail adjustment!


CAUTION!
Risk of damaging the stretcher when overloading the calfrest!

- ▶ Respect the maximum allowed load of the calfrest!

Control Signs	Meaning
	Lift Mattress Support Platform up
	Lower Mattress Support Platform down
	Trendelenburg Tilt
	Reverse-Trendelenburg Tilt

14.1 Collapsible Siderails

The collapsible siderails are components of the stretcher in contact with patient.

The nursing personnel are responsible for the siderails being raised up while the patient is in the stretcher.



WARNING!

Risk of injury due to incorrectly latched siderail!

- ▶ Push siderail towards head end and foot end to ensure that siderail is locked in the upper position!
- ▶ Audible click is not the sufficient indicator of the securely latched siderail!
- ▶ Red side parts of both Siderail Release Levers are not visible when the siderail is secured in the upper position. Contact manufacturer's service department if red side part of some Siderail Release Lever under the siderail in the spotlight is visible although the siderail seems to be secured in the upper position!
- ▶ Ensure the yellow Siderail Release Levers are not covered with bed sheets or with other obstacles. Accessibility of the yellow Siderail Release Levers is necessary for correct check of the siderail secured in the upper position!



WARNING!

Risk of injury due to incorrect position of siderails!

- ▶ Ensure that siderails are folded up while the patient is in the stretcher.



WARNING!

Risk of injury due to incorrect manipulation with siderails!

- ▶ Ensure that there is no body part between siderail bars during folding siderail down.

14.1.1 SIDERAIL DESCRIPTION

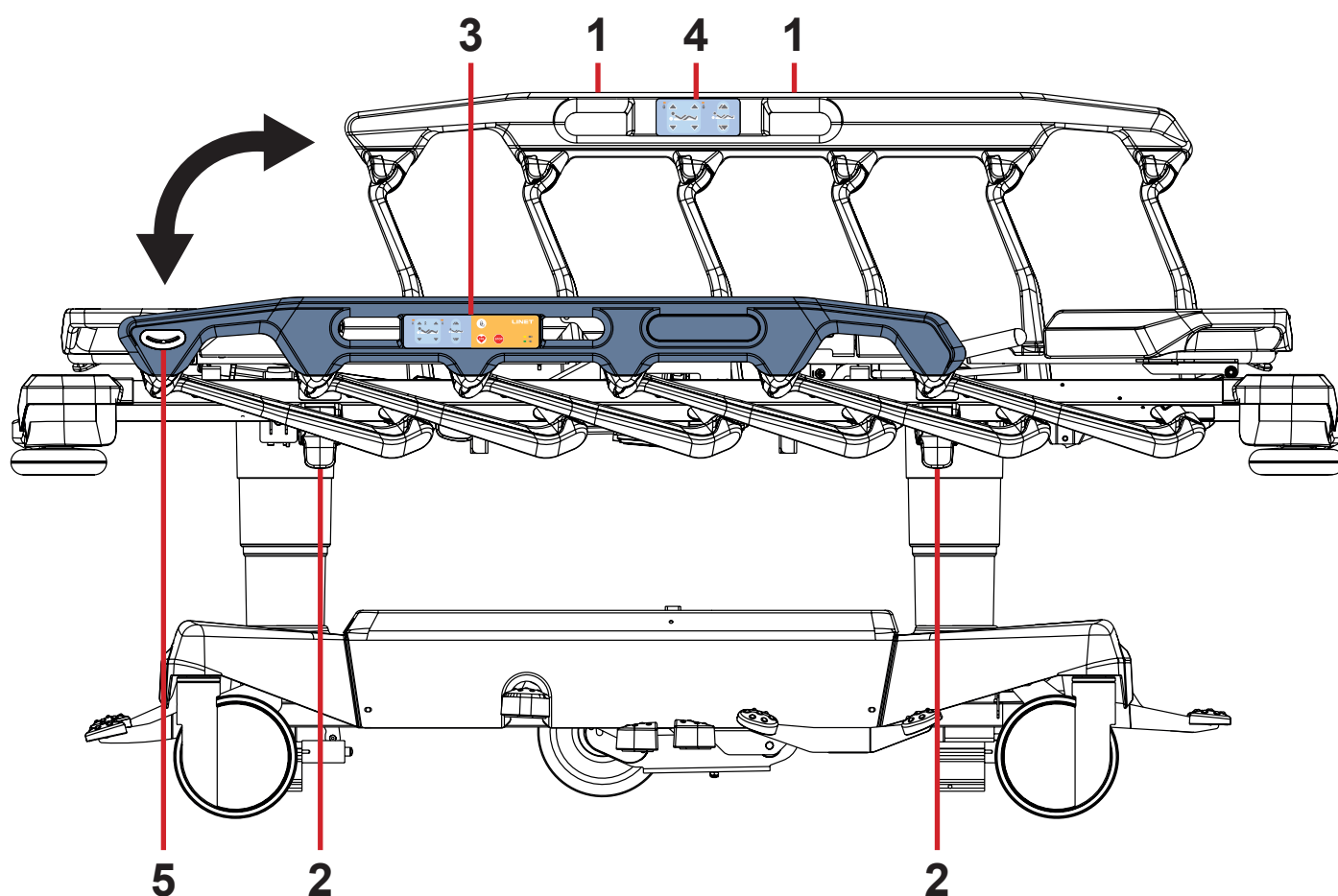


Fig. Manipulation with Collapsible Siderail

- 1. Siderail Handle
- 2. Siderail Release Lever
- 3. Siderail Control Panel
- 4. Patient Control Panel
- 5. Angle Indicator

MANIPULATION

To raise siderail up:

- ▶ Grab siderail by Siderail Handle (1).
 - ▶ Pull siderail up until it latches.
 - ▶ Push siderail towards head end and foot end to ensure that siderail is secured in the upper position!
- Red side parts of both Siderail Release Levers are not visible when the siderail is secured in the upper position.
Audible click is not the sufficient indicator of the securely latched siderail!

To release siderail down:

- ▶ Unlock siderail by pulling Siderail Release Lever (2) at Foot End or at Head End.
- ▶ Fold down siderail slowly.

To facilitate unlocking the siderail if needed:

- ▶ Do not push the siderail towards stretcher head end when unlocking the siderail by the yellow Siderail Release Levers!
- ▶ Ensure no patient and no mattress push the siderail towards stretcher head end when unlocking the siderail by the yellow Siderail Release Levers!
- ▶ Push the siderail slightly towards stretcher foot end to facilitate manipulation with the yellow Siderail Release Levers if needed.

SIGNALLING THE LOCKED SIDERAIL

Red side parts of both Siderail Release Levers are not visible when the siderail is locked in the upper position.

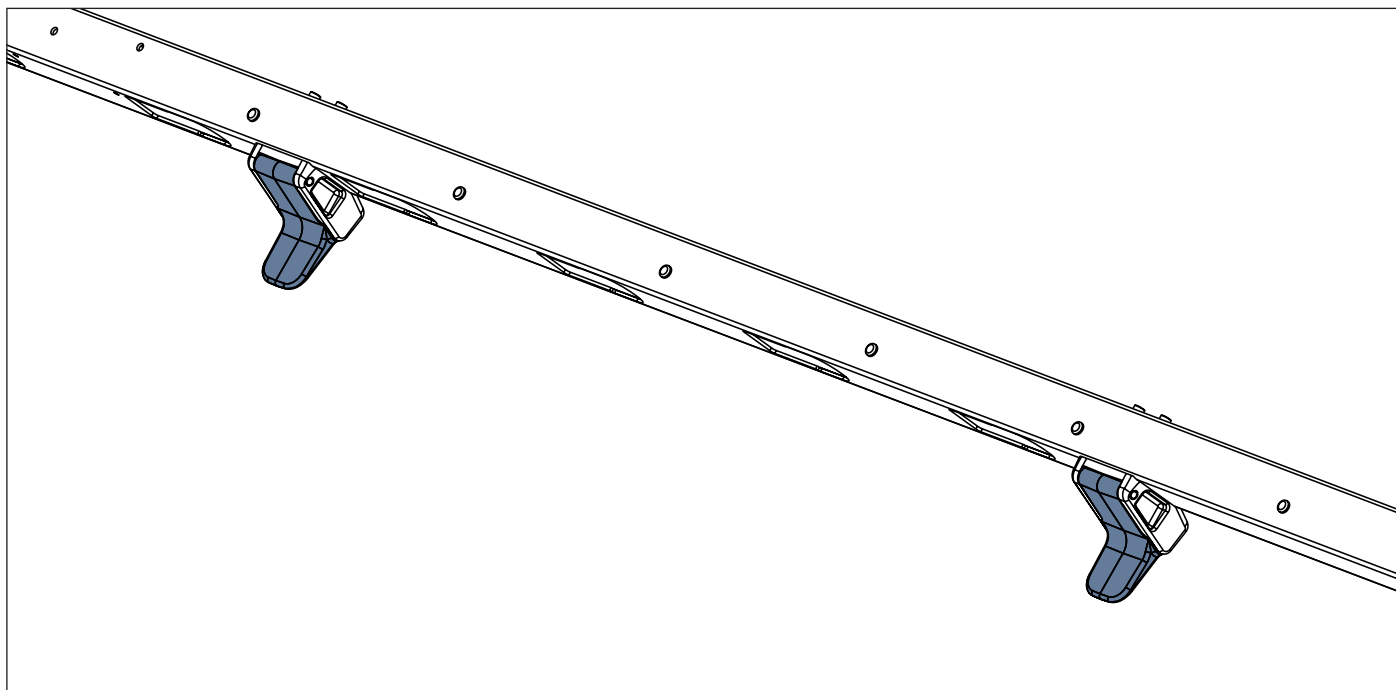


Fig. Positions of both Siderail Release Levers when the siderail is locked

SIGNALLING THE UNLOCKED SIDERAIL

Red side parts of both Siderail Release Levers are visible when the siderail is unlocked.

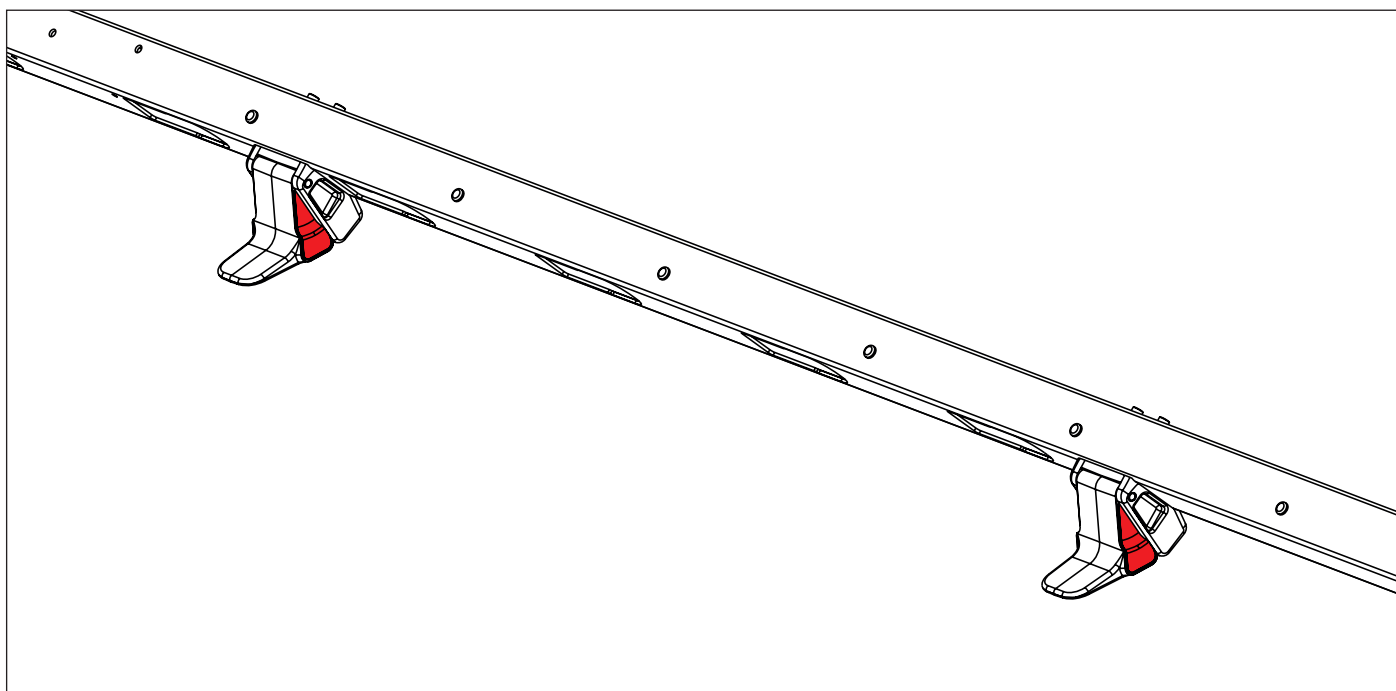


Fig. Positions of both Siderail Release Levers when the siderail is unlocked

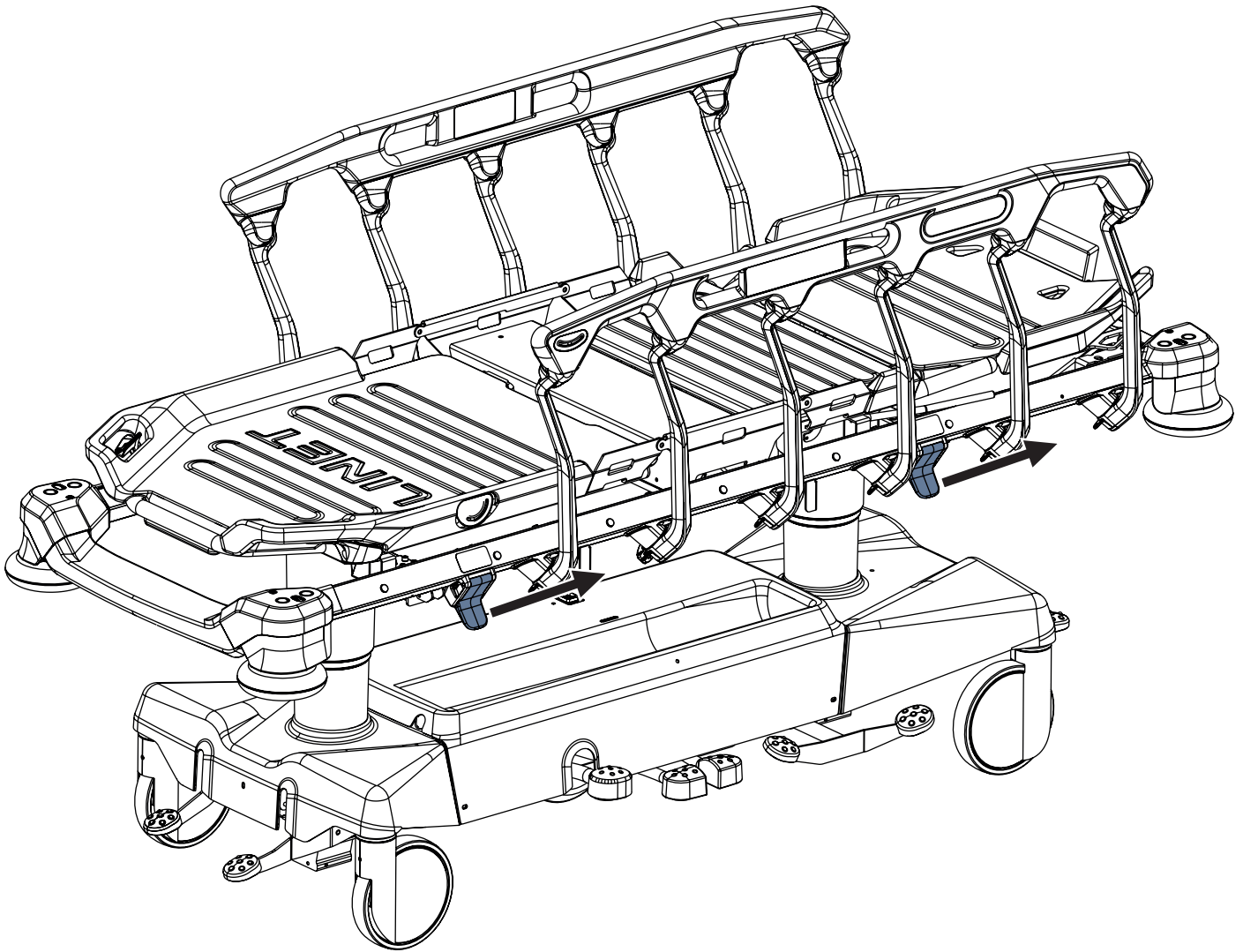


Fig. Release of the siderail at head end and foot end

14.2 Castor Control



WARNING!

Material damage due to incorrect transport and involuntary movement!

- ▶ Prior to transport, ensure that the stretcher is disconnected from the mains.
- ▶ Hang the power supply cord on the transport hook on the head board before stretcher transport.
- ▶ Ensure the castors are braked prior to putting into service, removal from service and maintenance.
- ▶ Ensure the castors are braked when the stretcher should not move.
- ▶ Ensure the castors are braked before stretcher positioning.
- ▶ Have the stretcher transported exclusively by nursing personnel.
- ▶ Observe the path for any obstacles and avoid collisions and possible damages to any stretcher parts on the undercarriage.

The stretcher is equipped with central castor control and brake system.

A directional castor can be situated at head end or foot end depending on stretcher configuration.

The castor control pedals are located at head end and foot end.

Optionally, castor control pedals are located on the stretcher sides also.

At head end and foot end there are green and red pedals.

Red colour refers to braking and green colour refers to steering.

Each pedal has 3 control positions.

Pedals are interconnected such that all pedal functions belong to each pedal. In following table the pedal functions are described.

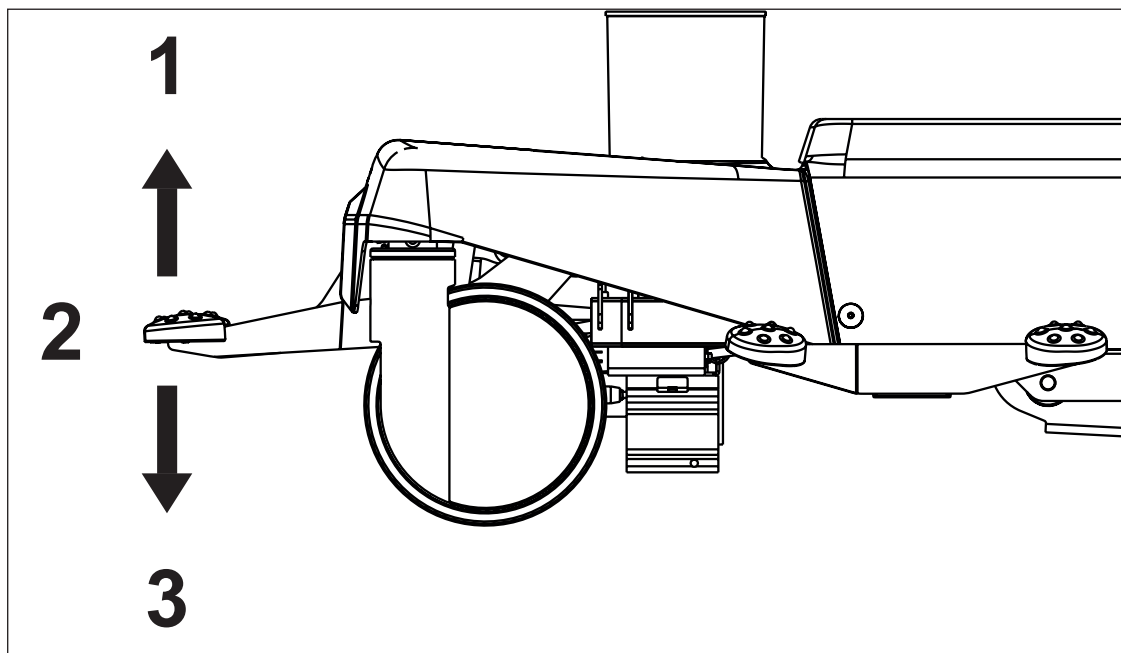


Fig. Three Pedal Positions (Green Drive Pedal)

Pedal Colour	Upper Position (1)	Middle Position (2)	Lower Position (3)
GREEN	BRAKED	UNRESTRICTED MOVEMENT	STEERING / FIFTH CASTOR / i-DRIVE POWER
RED	STEERING / FIFTH CASTOR / i-DRIVE POWER	UNRESTRICTED MOVEMENT	BRAKED

14.2.1 Braked Stretcher

To brake the stretcher:

- Press red Brake pedal (**1 or 2**) to the lower position.
All four castors are braked.

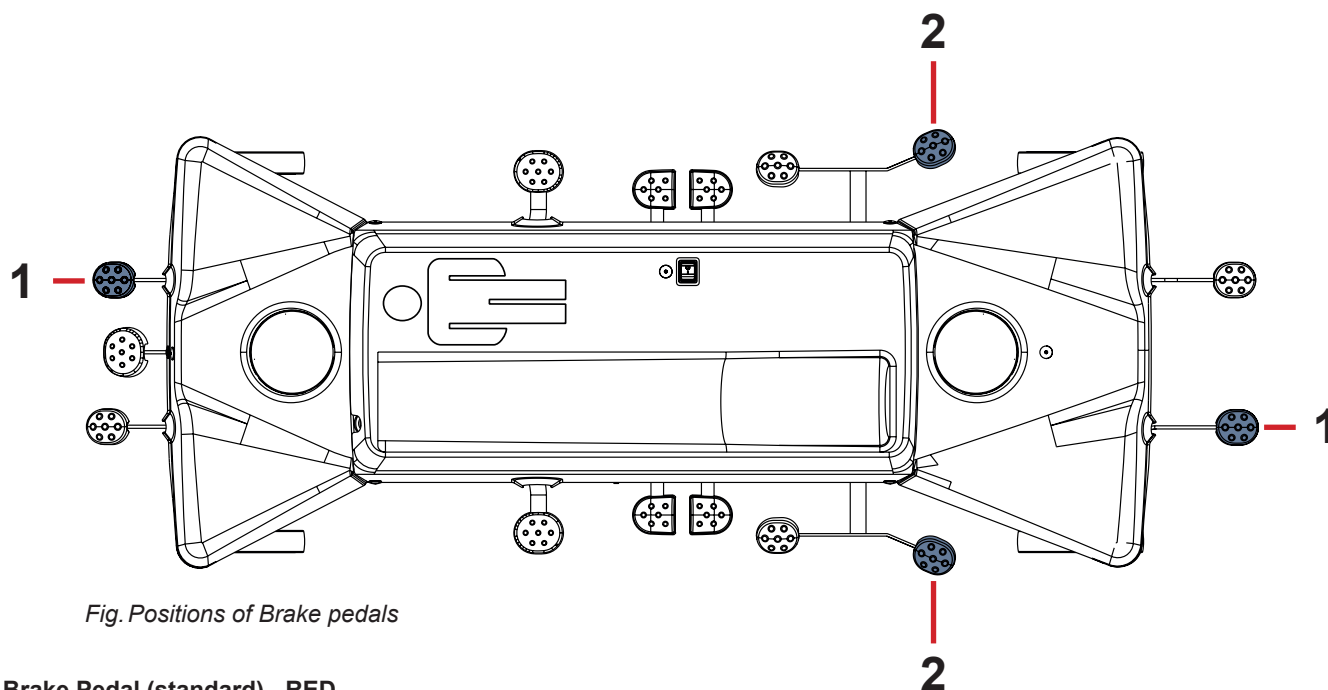


Fig. Positions of Brake pedals

- 1. Brake Pedal (standard) - RED
- 2. Brake Pedal (optional) - RED

14.2.2 Forward Movement (Steering)

To set forward movement:

- Press green Drive pedal (**3 or 4**) to the lower position.
The front **left castor** is locked after its forward movement was reached. The stretcher moves straight ahead.
If the stretcher is equipped with a **fifth castor** or with **i-Drive Power**, this castor determines the direction of movement.

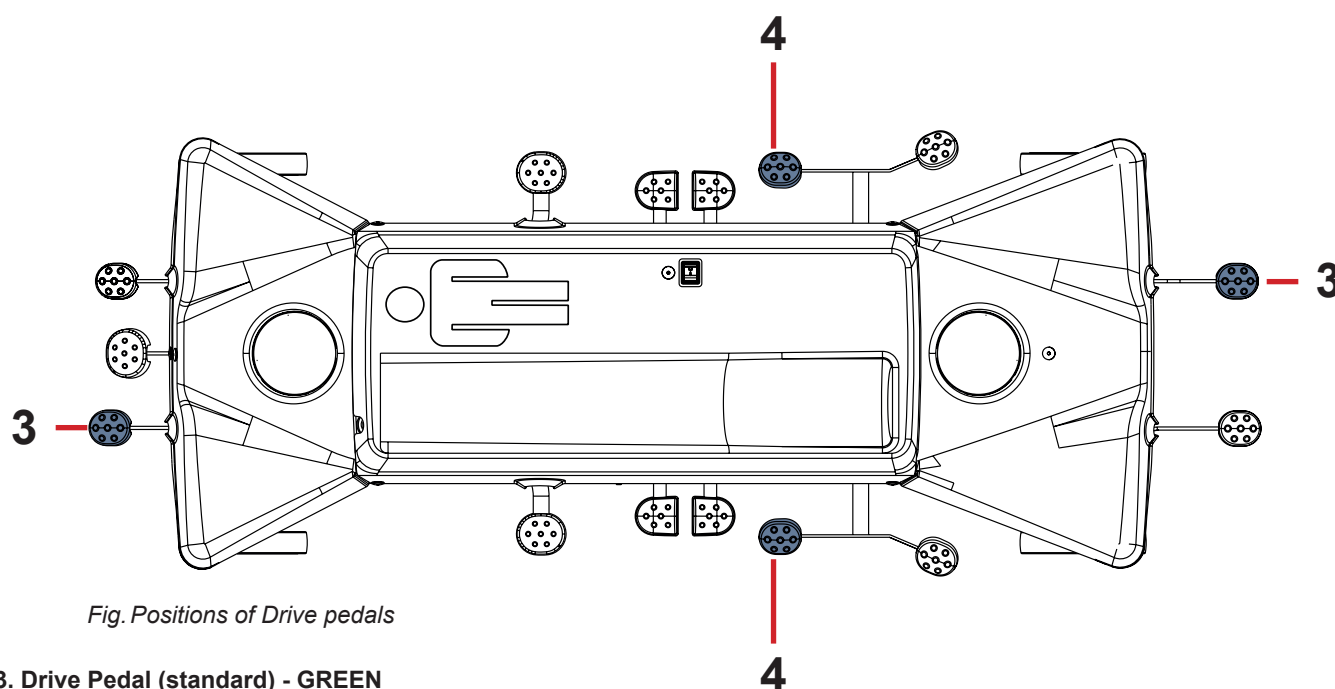


Fig. Positions of Drive pedals

- 3. Drive Pedal (standard) - GREEN
- 4. Drive Pedal (optional) - GREEN

14.2.3 Unrestricted Movement

To set unrestricted movement:

- ▶ Leave all Brake pedals and Drive pedals in their middle position.
- All four castors are unlocked.
- Unrestricted movement is enabled.

14.3 Control Elements



WARNING!

Ensure any button of the control elements is not involuntarily pressed by persons, by the stretcher accessories, by the mattress or by the other objects!

- ▶ To avoid unintended activation of moving parts during any use of the stretcher, always check that none of the buttons on the control elements of the stretcher is pressed!
- ▶ Always ensure any control panel keyboard is not covered by anything, loaded by anything or pressed by anything!

Sprint 400 electronic control elements:

- ▶ Siderail Control Panel
- ▶ Patient Control Panel

14.3.1 Siderail Control Panel

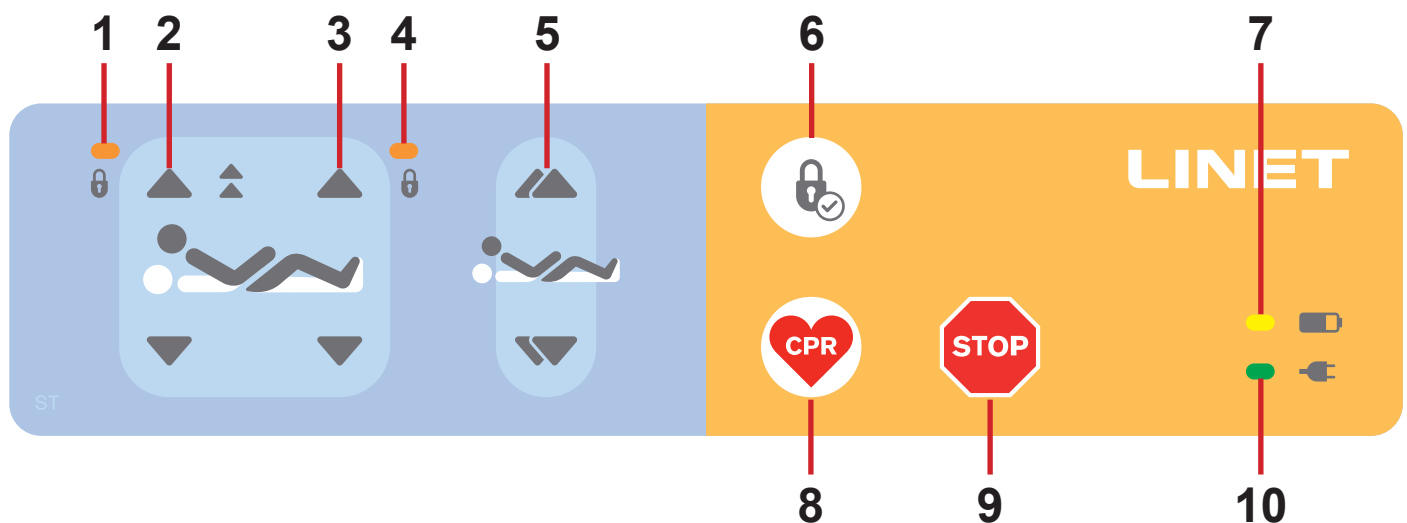


Fig. Siderail Control Panel Description

1. Backrest Adjustment Lock LED Indicator (ON - locked)
2. Backrest Adjustment Buttons (up/down)
3. Thighrest Adjustment Buttons (up/down)
4. Thighrest Adjustment Lock LED Indicator (ON - locked)
5. Autocontour Adjustment Buttons (simultaneous movement of Backrest and Thighrest up/down)
6. Lock Button
7. Accumulator Charge Status LED Indicator
8. Emergency CPR Position Button
9. Central STOP Button
10. Mains Power LED Indicator

ACCUMULATOR CHARGE STATUS LED INDICATOR (7)	MEANING
lit (ON) when stretcher is plugged into the mains	accumulator fault: accumulator not connected or low voltage
not lit (OFF) when stretcher is plugged into the mains	accumulator works correctly
flashing (0,2s lit / 1,6s not lit) when stretcher is plugged into the mains	accumulator is charging
flashing (0,1s lit / 0,1s not lit) when stretcher is only accumulator powered	accumulator low (Positioning does not work. Beep sounds anytime a positioning button was pressed.)
not lit (OFF) when stretcher is only accumulator powered	accumulator works correctly
flashing: 0,05s lit / 0,05s not lit	calibration mode

14.3.2 Patient Control Panel

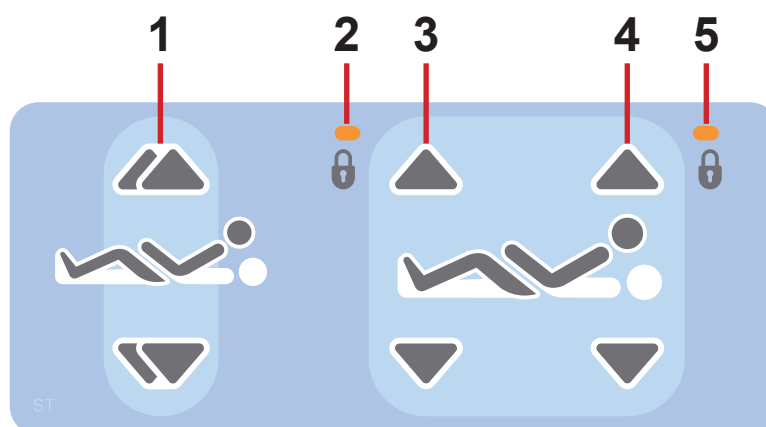


Fig. Patient Control Panel Description

1. Autocontour Adjustment Buttons (simultaneous movement of Backrest and Thighrest up/down)
2. Thighrest Adjustment Lock LED Indicator (ON - locked)
3. Thighrest Adjustment Buttons (up/down)
4. Backrest Adjustment Buttons (up/down)
5. Backrest Adjustment Lock LED Indicator (ON - locked)

15 Stretcher Positioning



WARNING!

Risk of injury when adjusting the stretcher!

- ▶ Ensure that there are no body parts between the mattress support platform elements and the mattress support platform frame when adjusting the stretcher.
- ▶ Ensure that there are no body parts between the siderails and the mattress support platform frame when adjusting the mattress support platform position and siderail position.
- ▶ Ensure that there are no body parts below the mattress support platform frame before adjusting the stretcher.



WARNING!

Risk of injury or material damage when adjusting the stretcher!

- ▶ Ensure that there are no installed accessories that may collide with moving parts of the stretcher.
- ▶ Extra care must be taken to avoid collisions of the accessories with stretcher parts during stretcher positioning.



CAUTION!

Risk of damaging the stretcher when adjusting the mattress platform position and siderail position!

- ▶ Avoid any collision during stretcher positioning and siderail adjustment!



CAUTION!

Risk of squeezing hand due to incorrect Backrest adjustment!

- ▶ Take extra care during Backrest adjustment to avoid squeezing your hand!

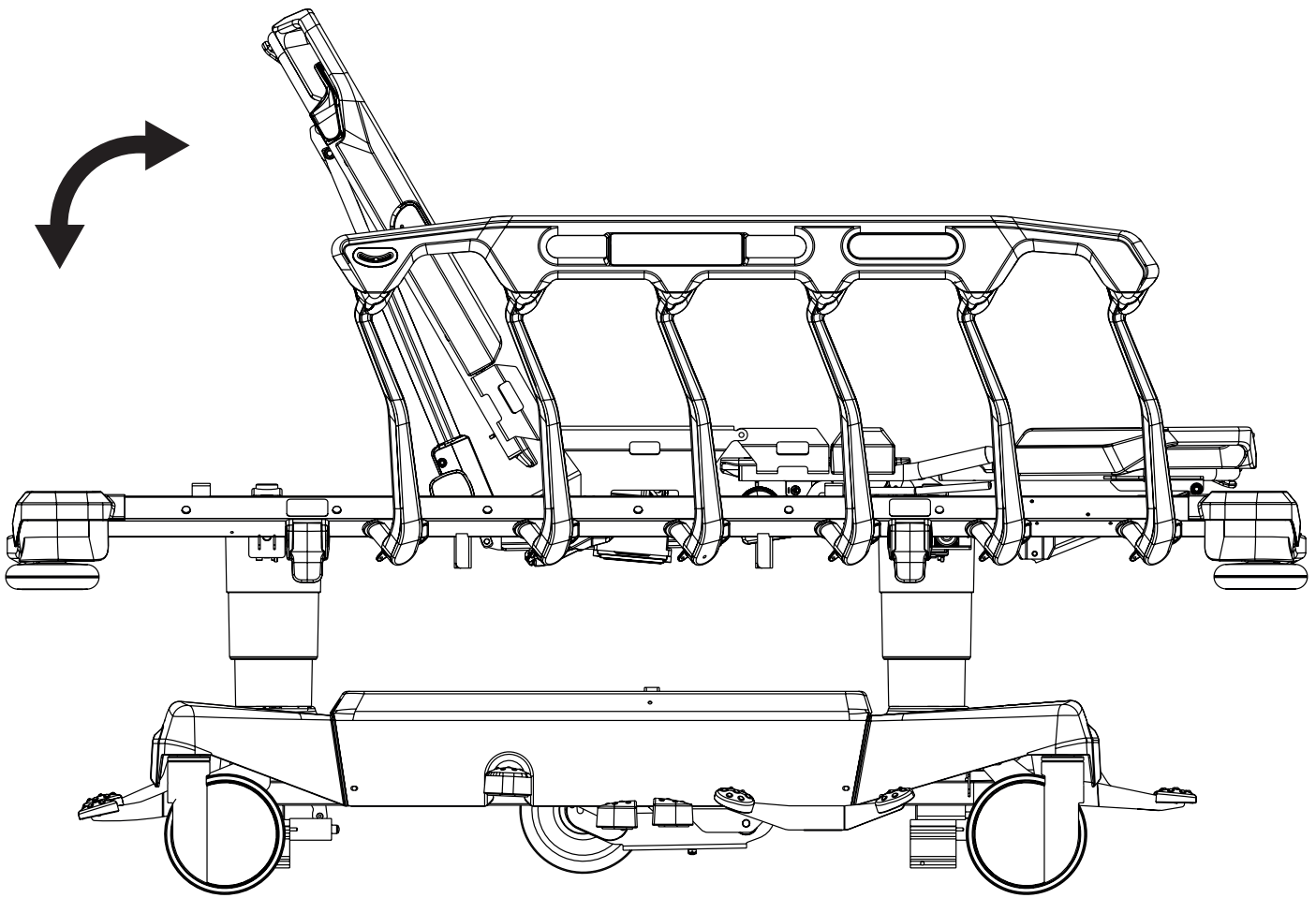


CAUTION!

Risk of squeezing hand due to incorrect Calfrest adjustment!

- ▶ Take extra care during Calfrest adjustment to avoid squeezing your hand!

15.1 Backrest



WARNING!

Risk of injury or material damage due to incorrect lifting of the Backrest without any patient on the mattress support platform!

- ▶ During lifting the Backrest up without any patient on the mattress support platform, hold the Backrest carefully so that a fast movement of the Backrest does not hit you!
- ▶ Before lifting the Backrest up without any patient on the mattress support platform, ensure that there are no objects or body parts between the lateral bars of raised siderails and the Backrest!



WARNING!

Risk of injury or material damage due to the incautious backrest lowering via control panels!

- ▶ Before lowering the backrest, ensure that there are no objects or body parts between the mattress support platform frame and the backrest!

To position Backrest manually:

- ▶ press Backrest Release Handles towards the Backrest frame
- ▶ hold the Backrest and position it carefully

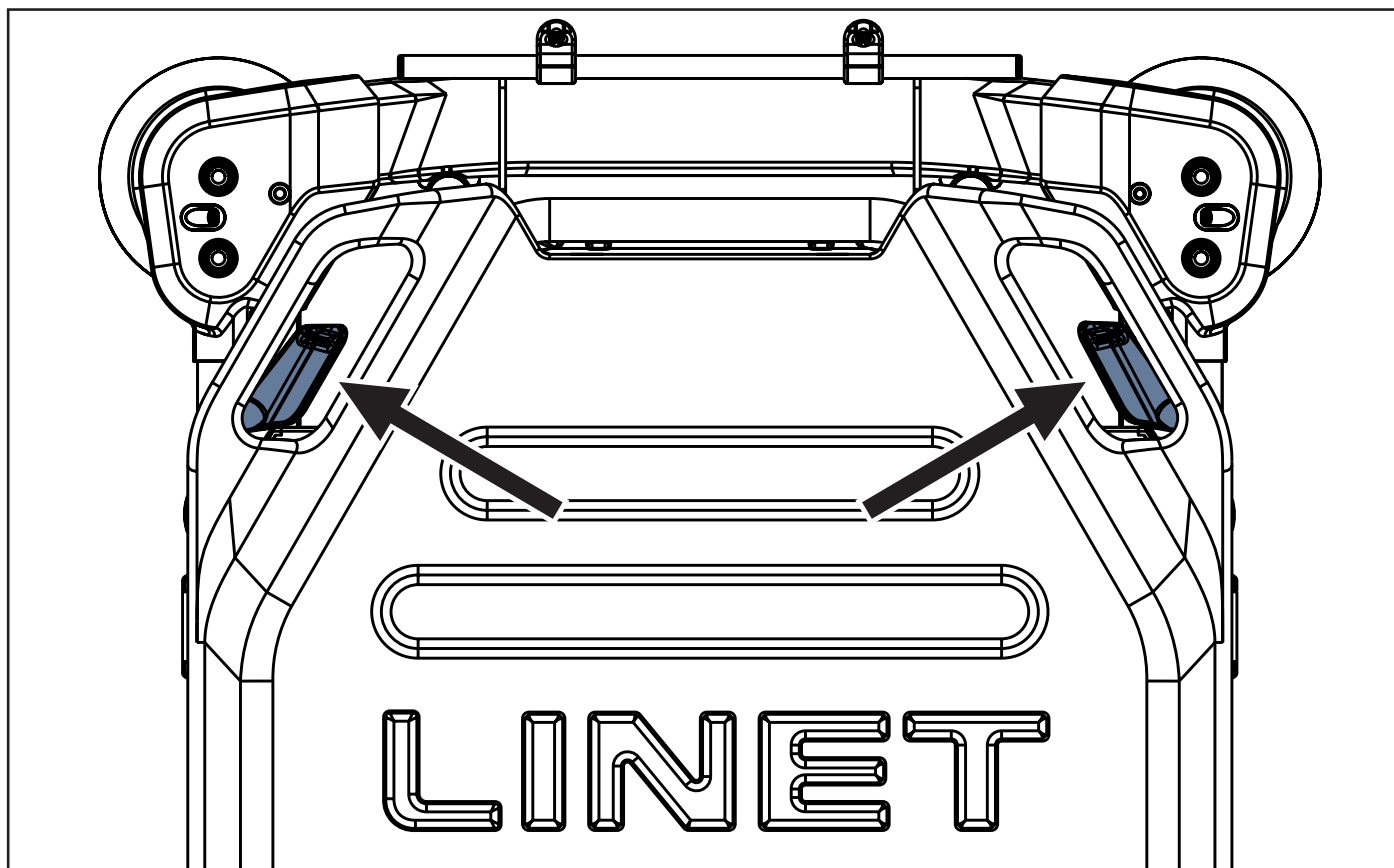
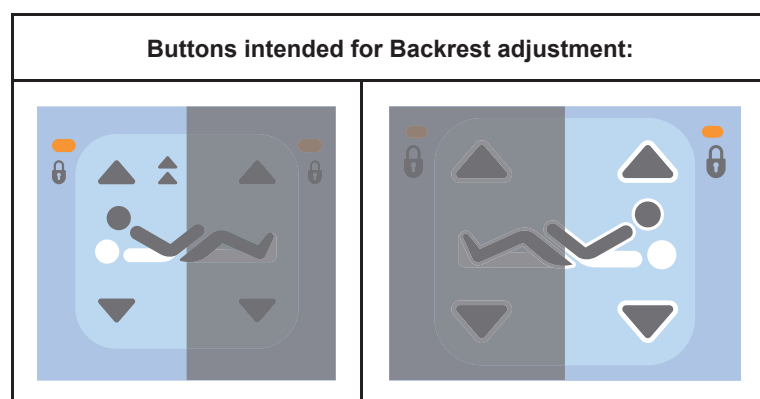


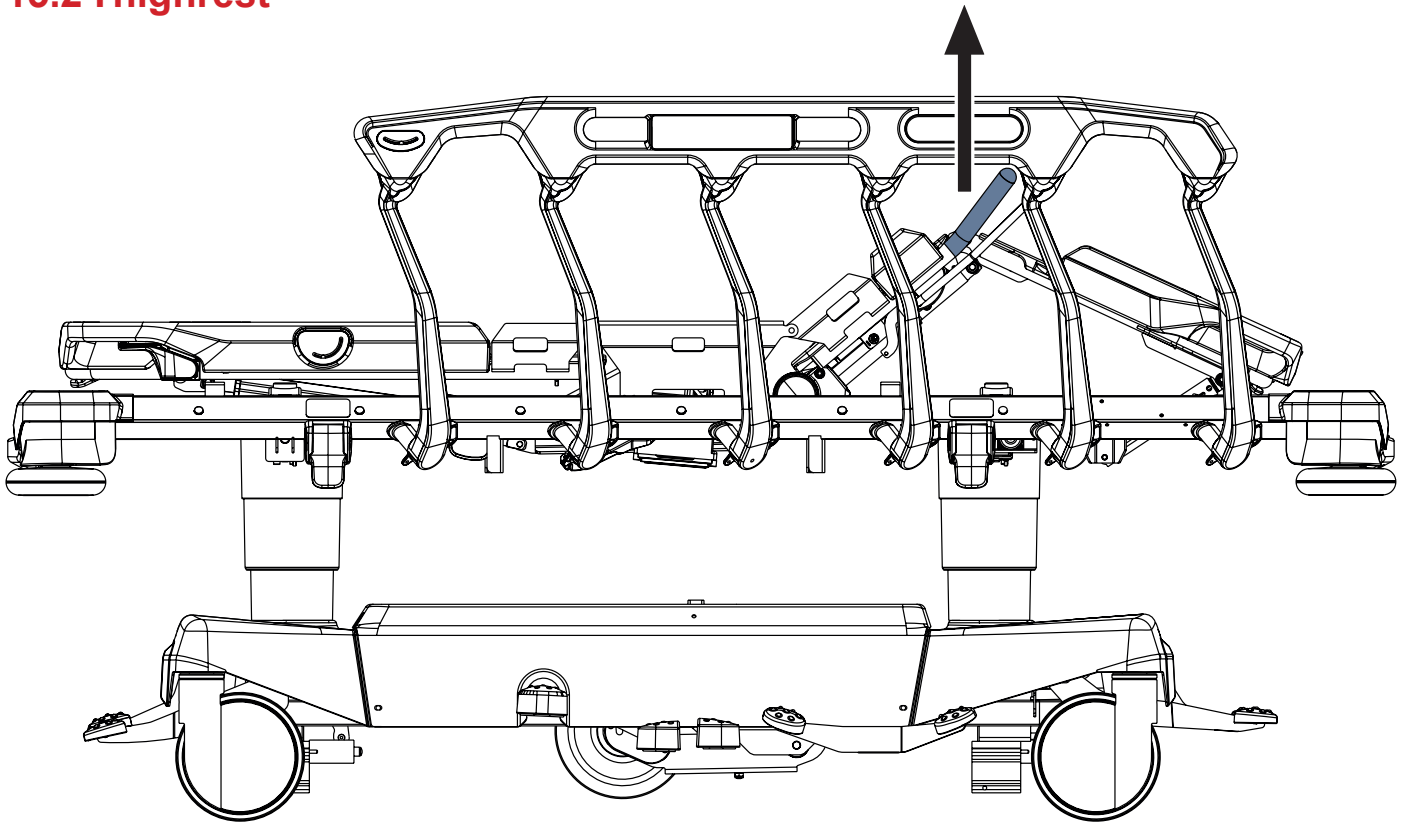
Fig. Manipulation with Backrest Release Handle

To adjust Backrest via the electronic control elements, use:

- ▶ Siderail Control Panel
- ▶ Patient Control Panel



15.2 Thighrest



Sprint 400 stretcher can be equipped with Thighrest Latch. The Thighrest Latch enables the thighrest to be lowered manually but it cannot be used for thighrest lifting. It is not possible to adjust position of the Thighrest manually on the stretcher without the Thighrest Latch. Electronic control elements enable both thighrest lifting and thighrest lowering.

To lower Thighrest if the stretcher is equipped with Thighrest Latch:

- ▶ grab Thighrest Handle, press Thighrest Latch and push Thighrest Handle with Thighrest Latch down until intended position is reached
- ▶ release the Thighrest Latch

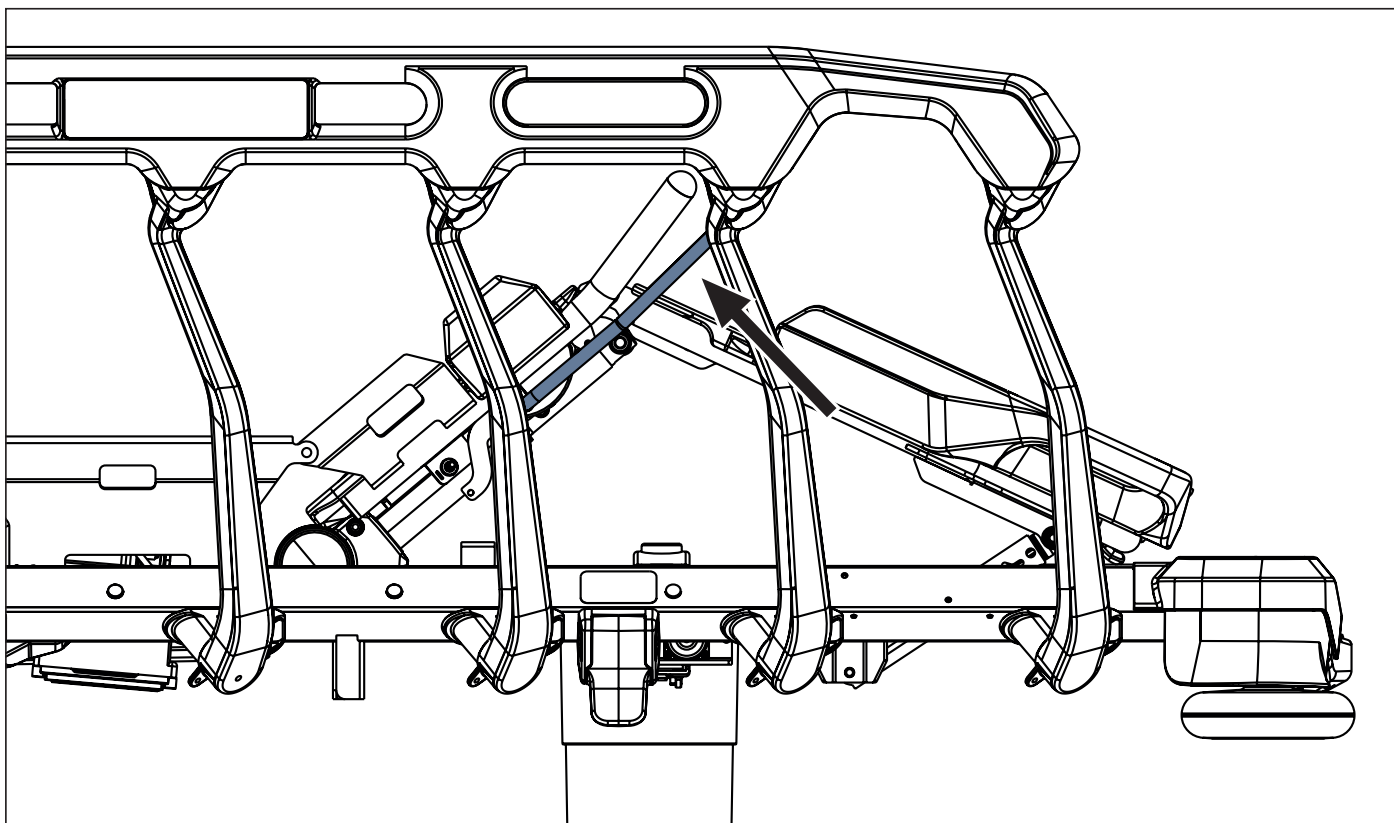
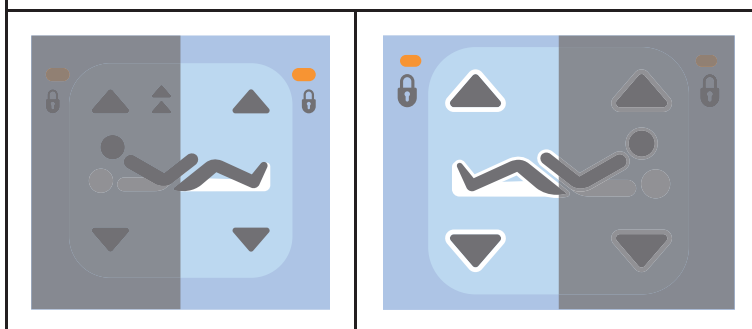


Fig. Position of Thighrest Latch

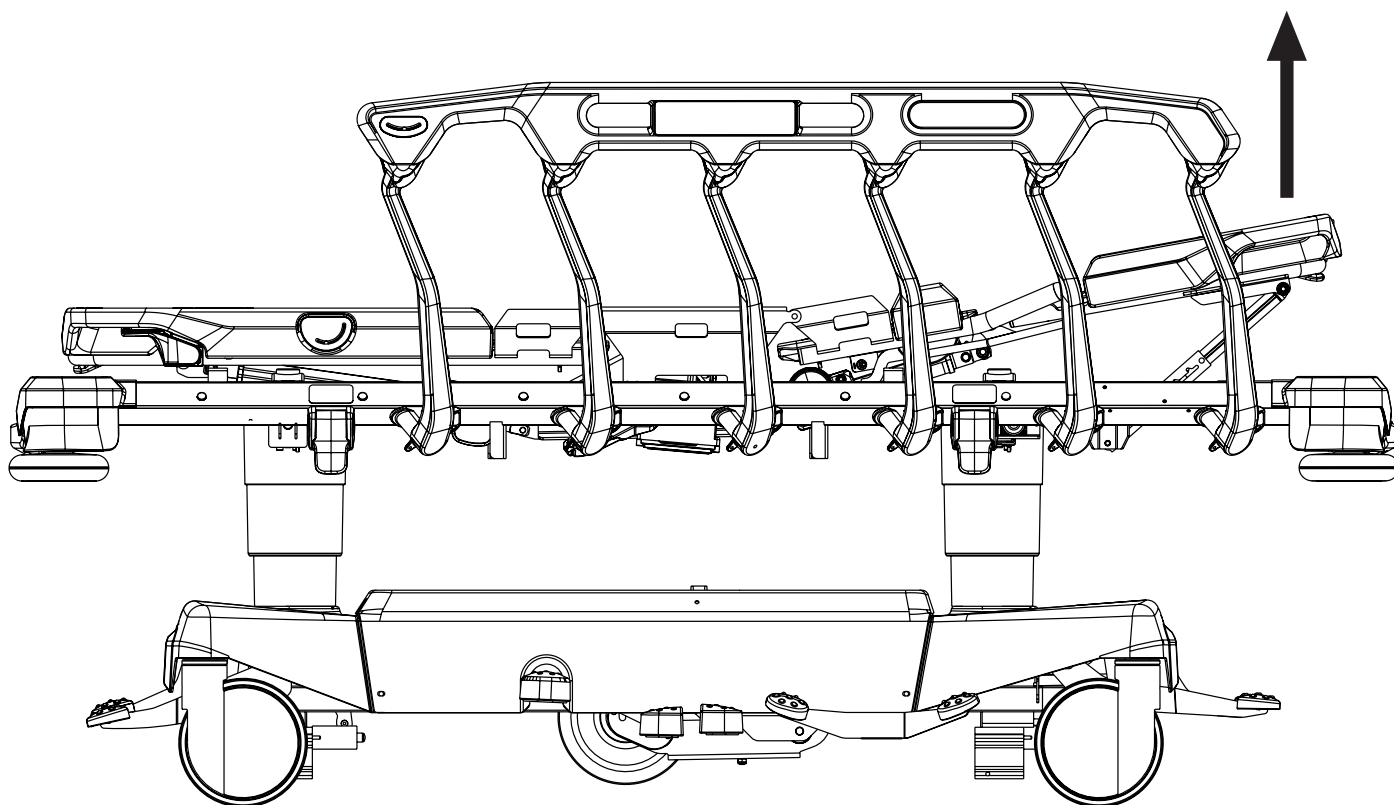
To adjust Thighrest via the electronic control elements, use:

- ▶ Siderail Control Panel
- ▶ Patient Control Panel

Buttons intended for Thighrest adjustment:



15.3 Calfrest



Maximum Calfrest load is 50 kg when the Calfrest is lifted.
To position Calfrest, position Thighrest firstly.

To lift Calfrest:

- ▶ lift Calfrest by the handle to intended position
- ▶ lower the Calfrest so that catch fits in the ratchet-bar

To lower Calfrest:

- ▶ lift Calfrest slightly by the handle
- ▶ lower Calfrest to intended position
- ▶ lift Calfrest slightly to ensure the catches fits in the both ratchet-bars

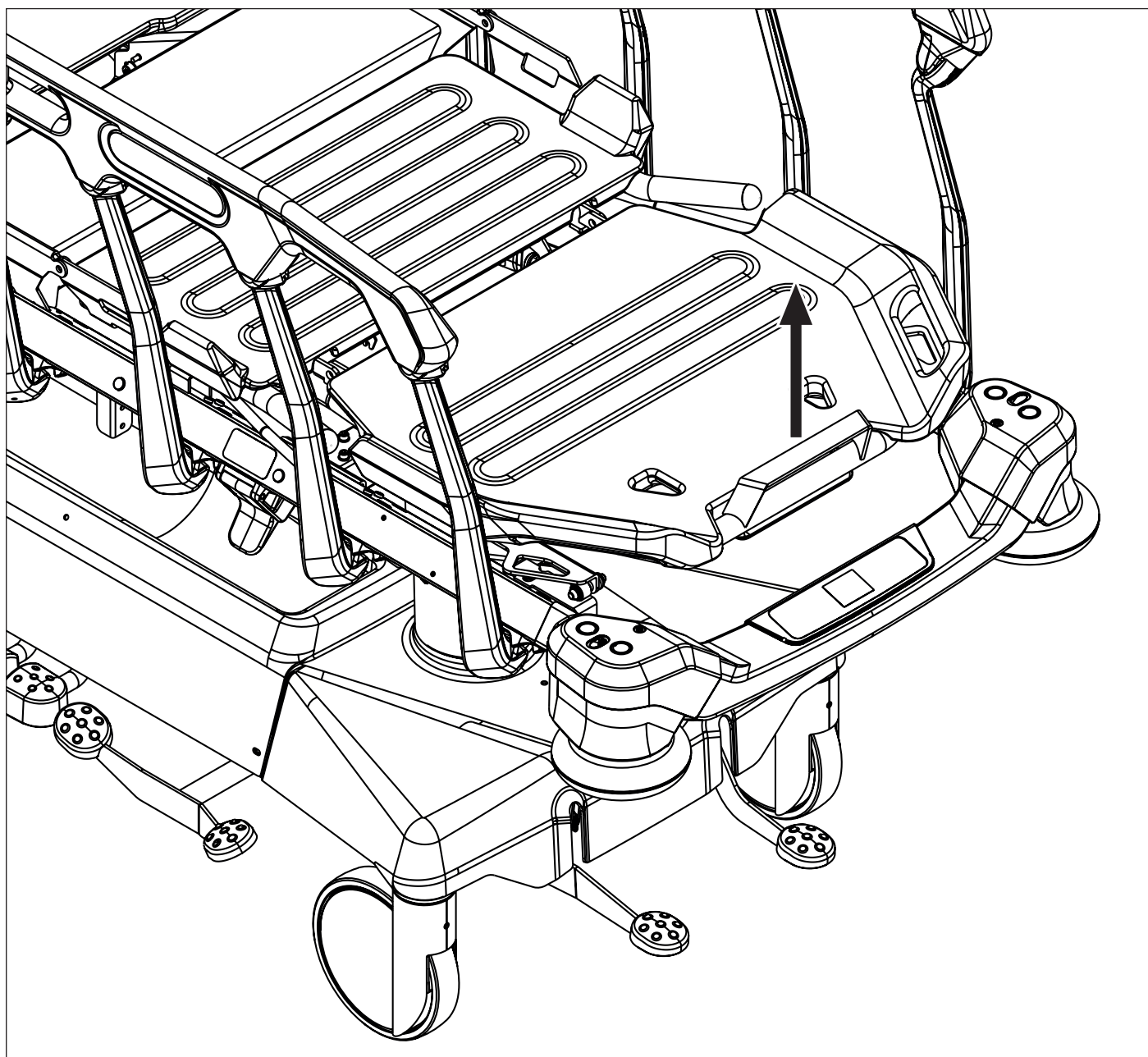


Fig. Calfrest Positioning

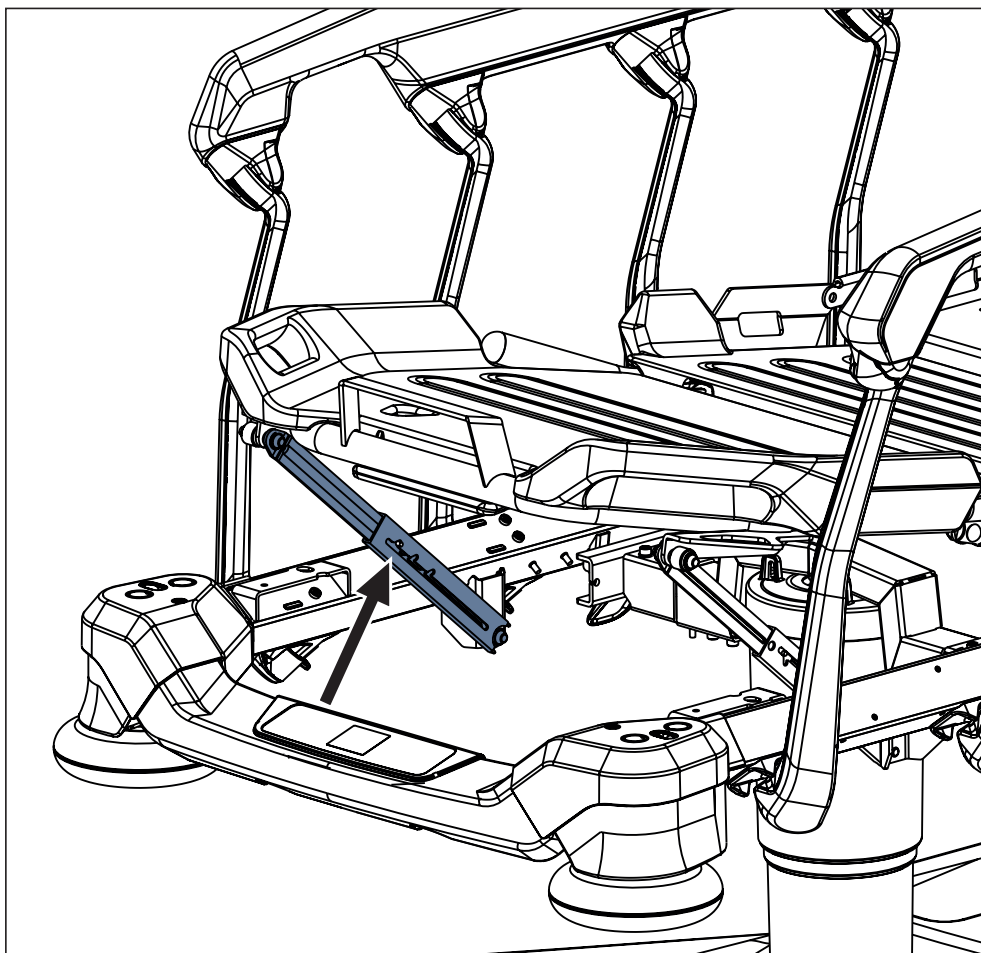


Fig. Calfrest ratchet-bar

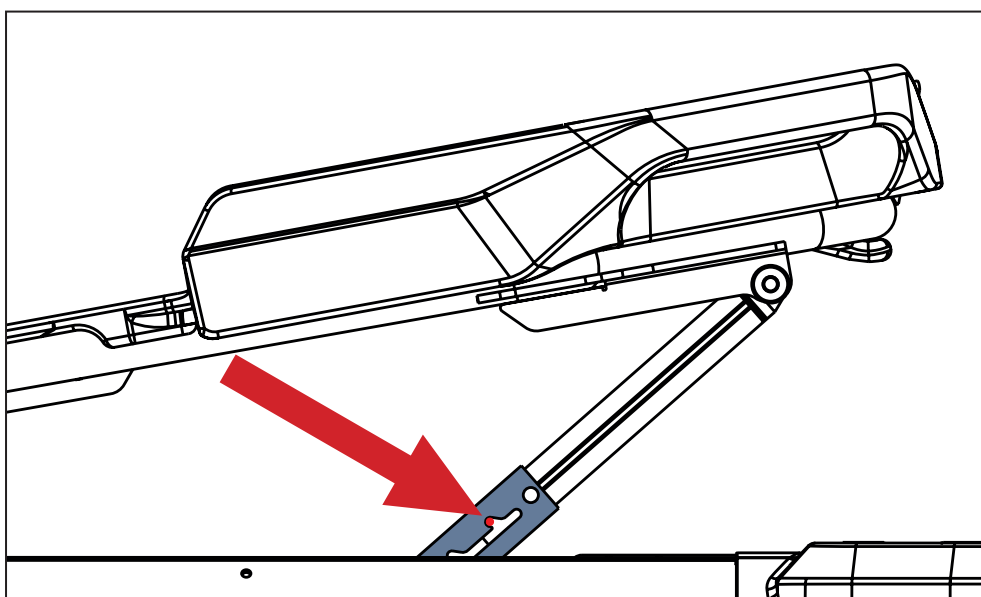
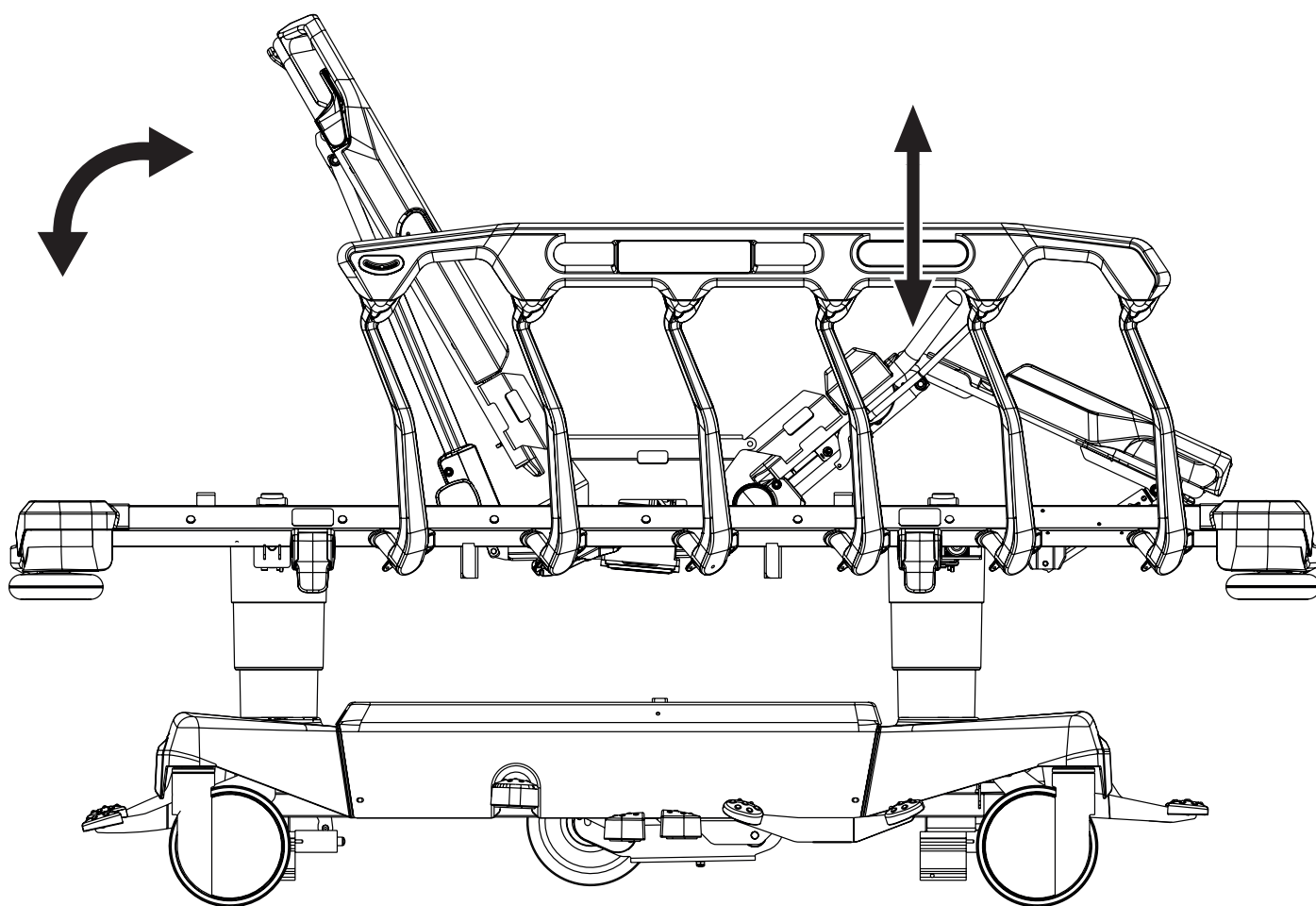


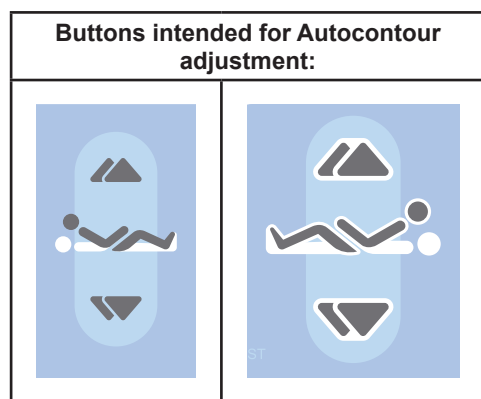
Fig. Detail of the catch position in the ratchet-bar

15.4 Autocontour

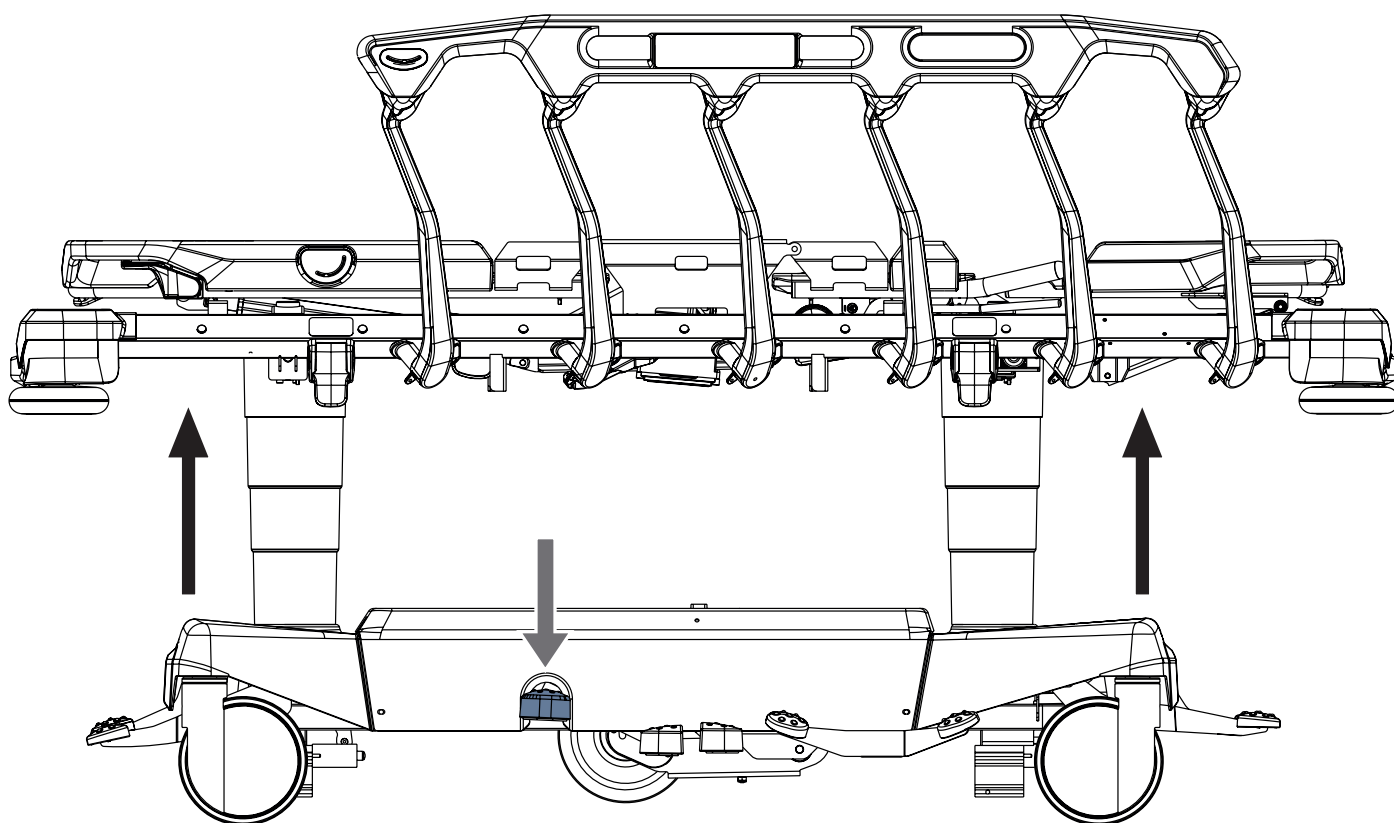


To adjust Autocontour via the electronic control elements, use:

- ▶ Siderail Control Panel
- ▶ Patient Control Panel



15.5 Lifting



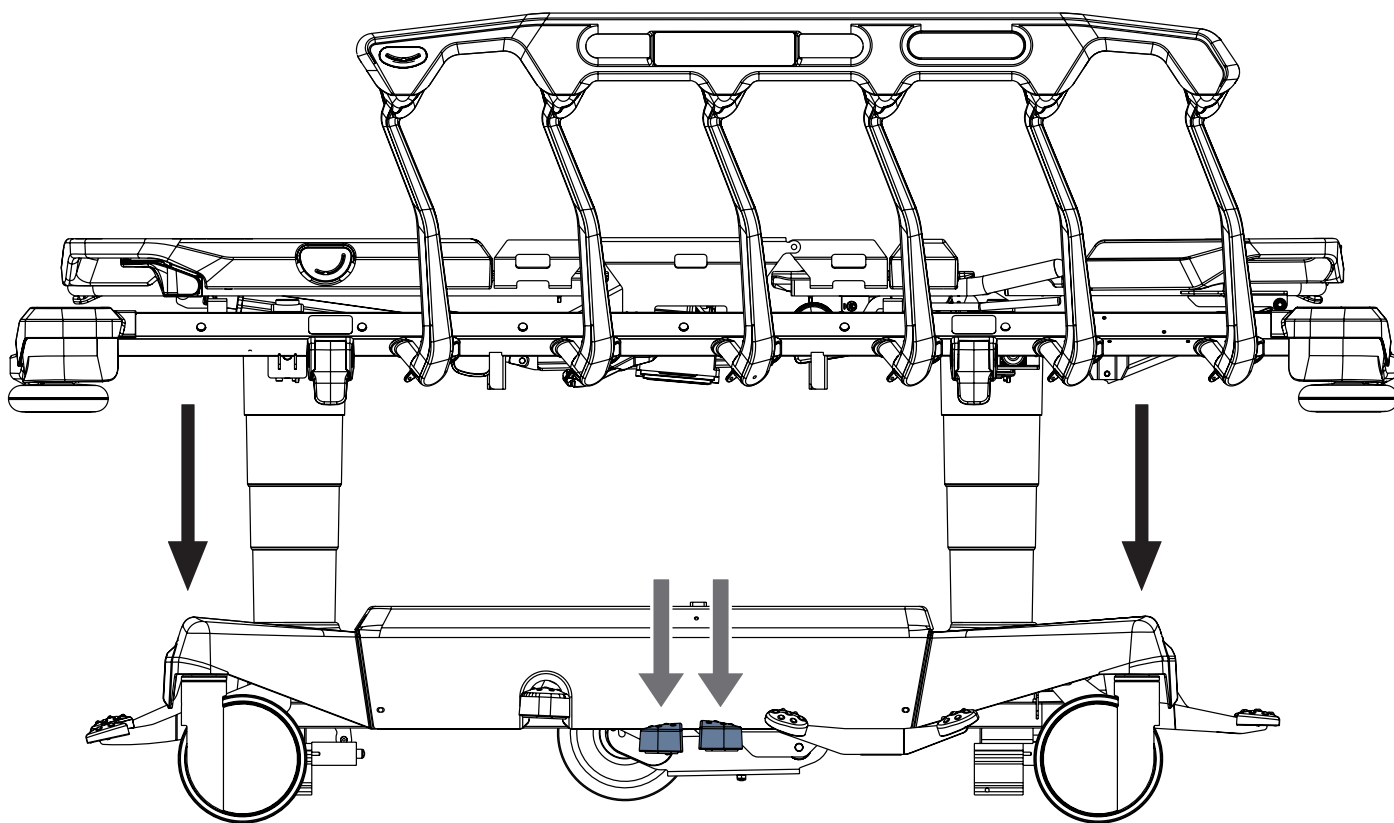
To lift Mattress Support Platform:

- press Lifting pedal and repeat it until intended position is reached

To perform bleeding procedure of hydraulic units:

- press Lifting pedal 10 times in the highest stretcher position

15.6 Lowering



CAUTION!

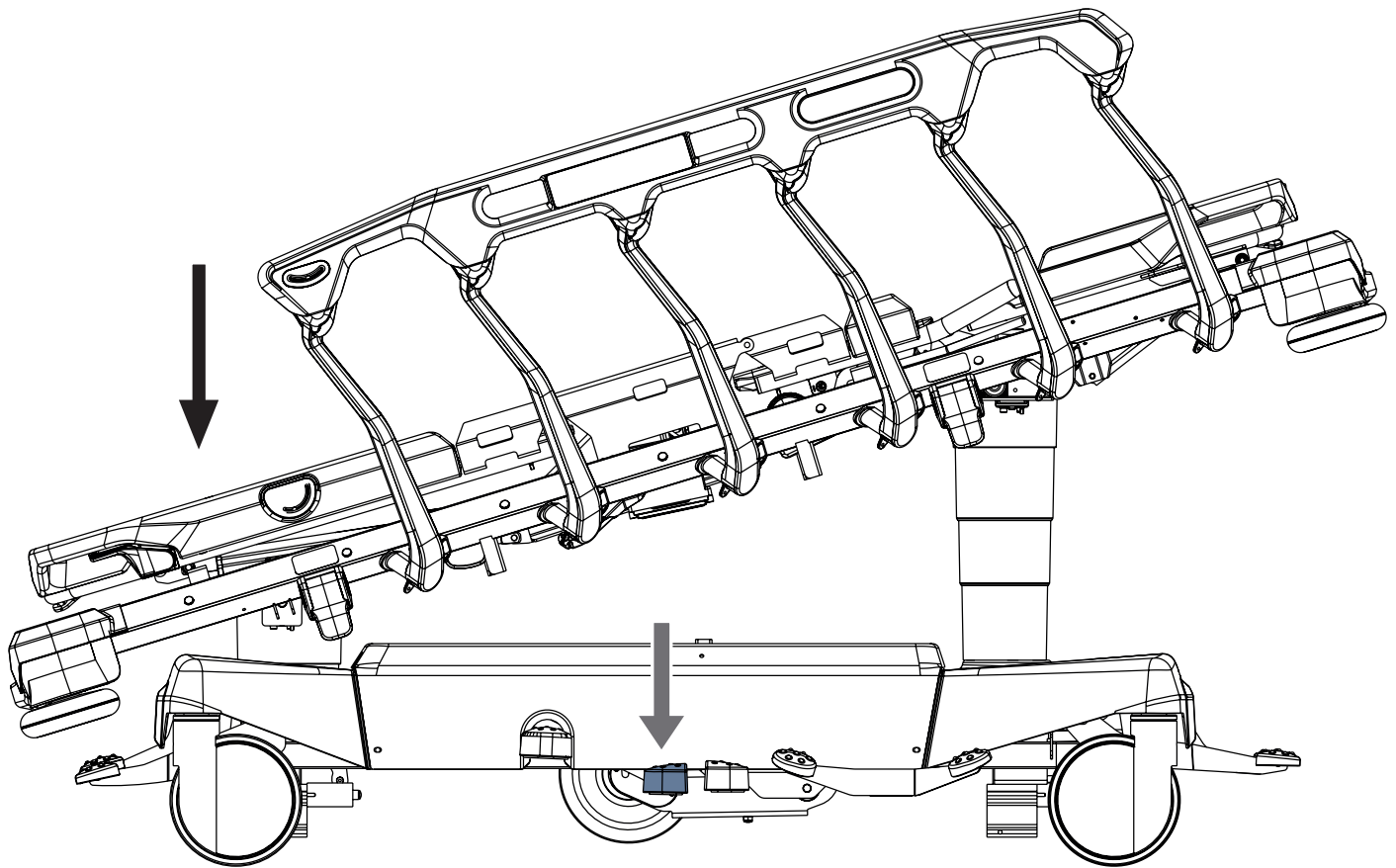
Risk of material damage due to objects on the undercarriage cover!

- Do not place objects on the undercarriage cover outside storage space!
- Respect dimensions of objects placed in storage space of the undercarriage cover!
- For information about objects intended for storage in the space of undercarriage cover follow chapter Accessories.

To lower Mattress Support Platform:

- Press and hold Head End Lowering pedal and Foot End Lowering pedal at the same time until intended position is reached. If the horizontal position is required ensure this position was reached. In order to eliminate a remaining longitudinal tilt, use corresponding pedal.

15.7 Trendelenburg Position



WARNING!

Risk of injury due to improper use of Trendelenburg Position!

- ▶ Hospital staff is responsible for assessing if the physical and psychological state of the patient is in accordance with use of the Trendelenburg Position.
- ▶ Hospital staff is responsible for assessing whether used bedclothes increase the risk of patient's sliding from the stretcher!

To reach Trendelenburg position:

- ▶ press Head End Lowering pedal until intended position is reached

OR

- ▶ press Head End Trendelenburg Pedal until intended position is reached

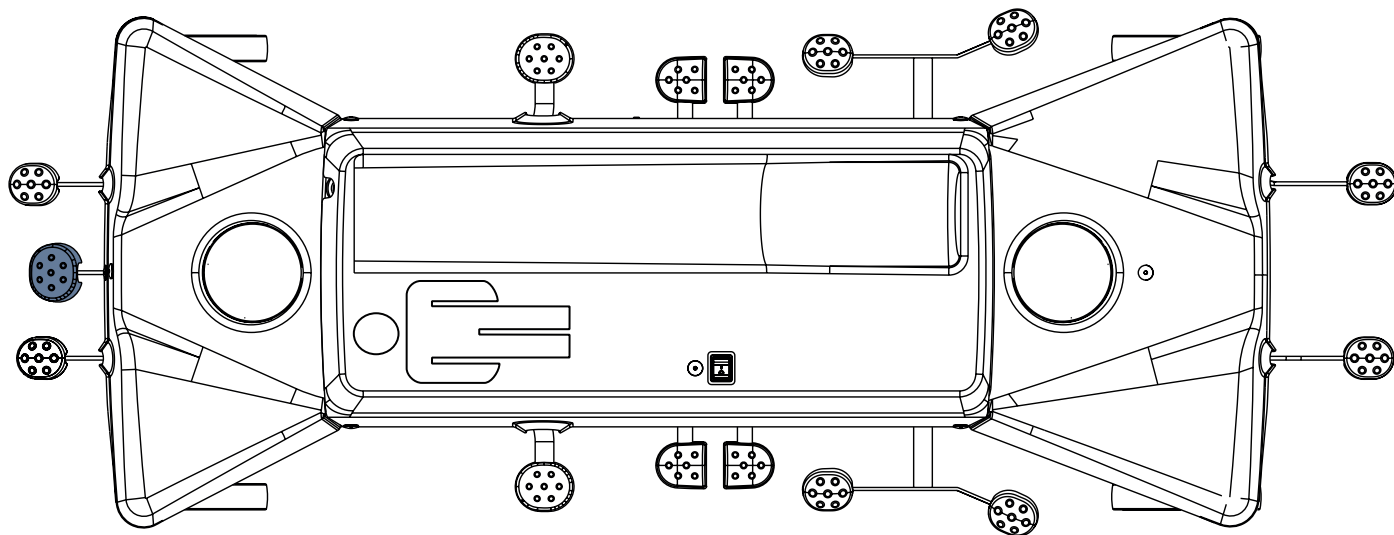
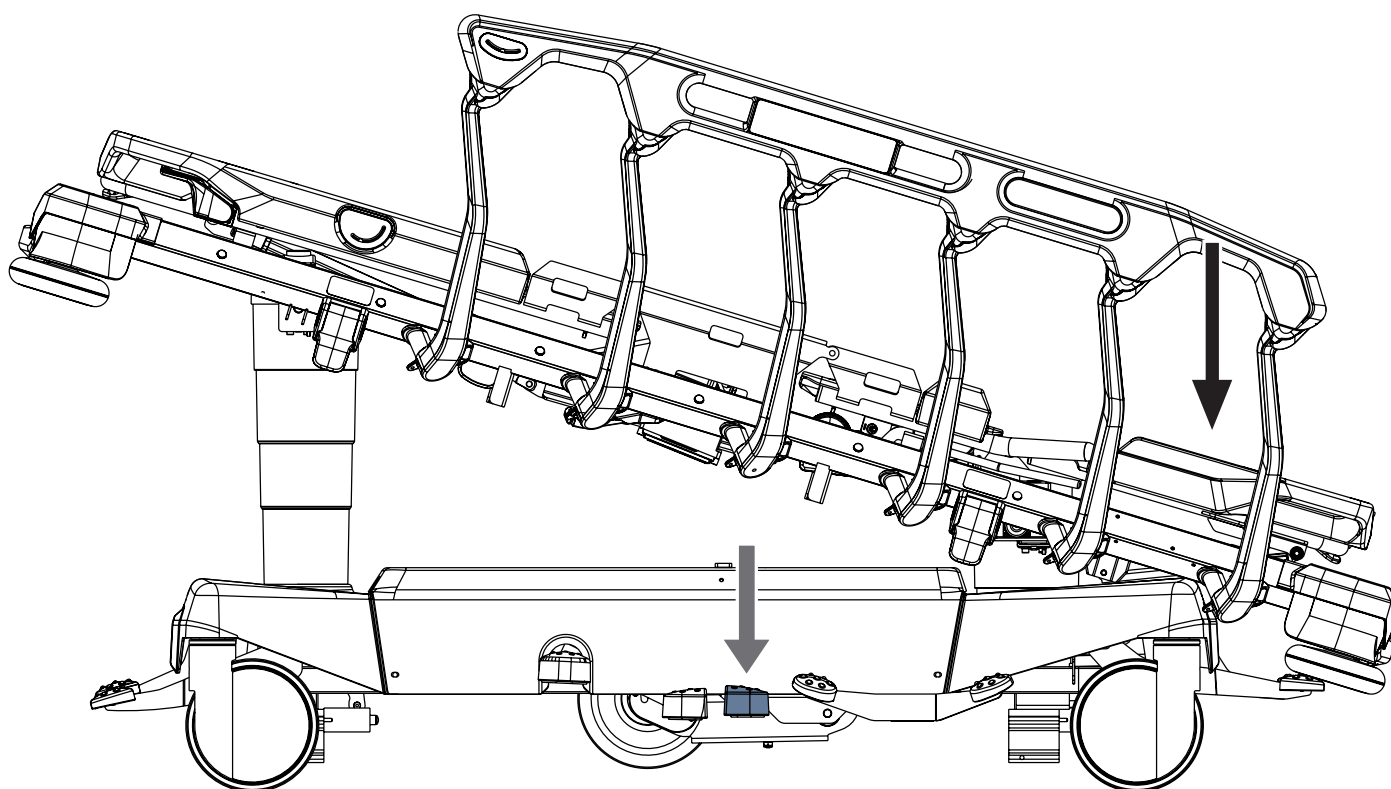


Fig. Position of Head End Trendelenburg Pedal (optional)

15.8 Reverse-Trendelenburg Tilt



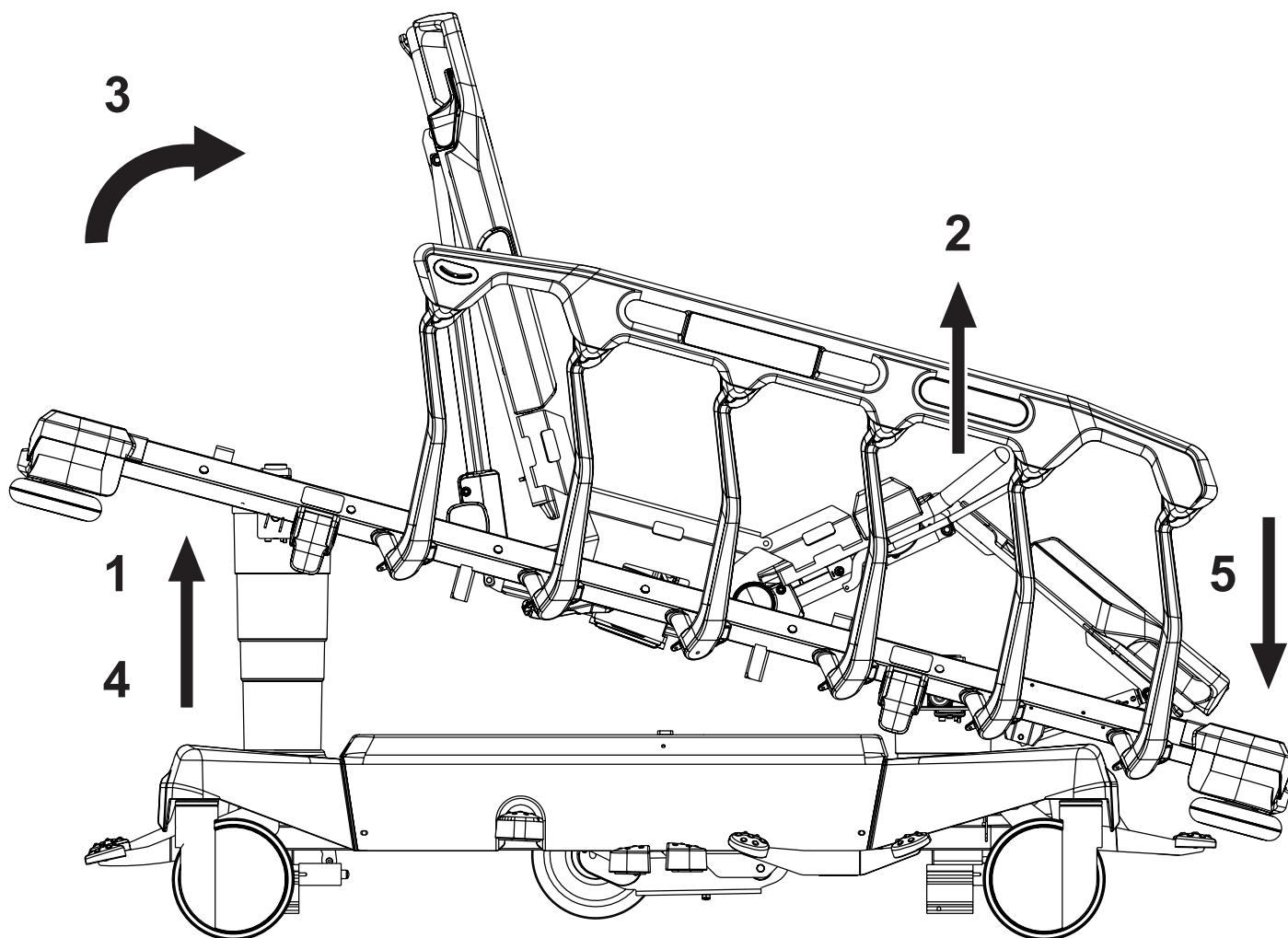
WARNING!
Risk of injury due to patient's sliding!

► Hospital staff is responsible for assessing whether used bedclothes increase the risk of patient's sliding from the stretcher!

To reach Reverse-Trendelenburg Tilt:

► press Foot End Lowering pedal until intended position is reached

15.9 Cardiac Chair Position



To reach Cardiac Chair Position manually:

- ▶ lift the Mattress Support Platform to facilitate Thighrest and Backrest positioning (1)
- ▶ lift the Thighrest (2)
- ▶ lift the Backrest (3)
- ▶ lift the Mattress Support Platform to the maximum position (4)
- ▶ use Foot End Lowering pedal until intended position is reached (5)

To reach Cardiac Chair Position via Siderail Control Panel or Patient Control Panel:

- ▶ lift the Mattress Support Platform to facilitate Autocontour adjustment (1)
- ▶ adjust Autocontour position (2 + 3)
- ▶ lift the Mattress Support Platform to the maximum position (4)
- ▶ use Foot End Lowering pedal until intended position is reached (5)

15.10 Emergency Backrest Release and Thighrest Release

In order to adjust Mattress Support Platform for Cardiopulmonary Resuscitation (CPR) it is necessary to position Backrest to the lowest position and Mattress Support Platform to the lowest position.

Set the position as follows:

- ▶ Adjust Backrest and Thighrest to the lowest position.
- ▶ Adjust Mattress Support Platform to the lowest position.

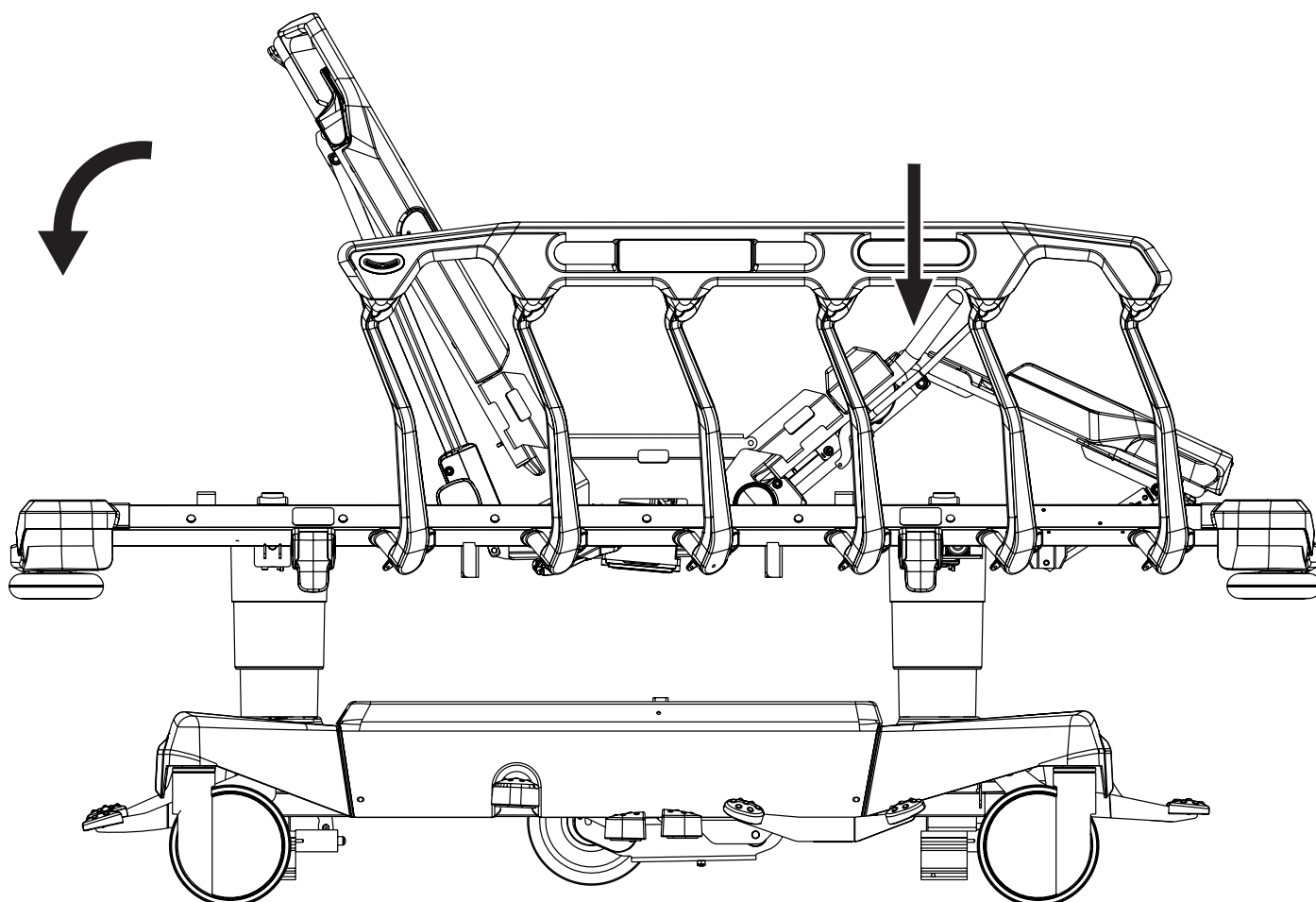


Fig. Preparation for Cardiopulmonary Resuscitation

15.11 Ergoframe

Ergoframe® is the kinematic system of Backrest and Thighrest Adjustment resulting in extension of the Mattress support platform in the seat section. Ergoframe enlarges the space for pelvic area during the lifting of Backrest or the lifting of Thighrest. Because of increase of the space the force applied results in decrease of the pressure that can cause pressure injuries in the pelvic area. Ergoframe maintains a stable ergonomic position of the body and spine of the patient, thus limiting unwanted movement of the patient by moving down or up in stretcher. Unified movement eliminates the patient's shift over the mattress and thus maintains a uniform position of the patient's body that is not bound to the position of the stretcher parts.

16 Locking and Unlocking the stretcher positioning functions

To disable the electronically operated stretcher positioning functions for patient, use:

- Siderail Control Panel.

If the stretcher does not react to individual electronically operated stretcher positioning adjustment:

- Check whether the function is disabled on the Siderail Control Panel.

Disabling individual stretcher positioning functions on the Siderail Control Panel will affect all control elements.

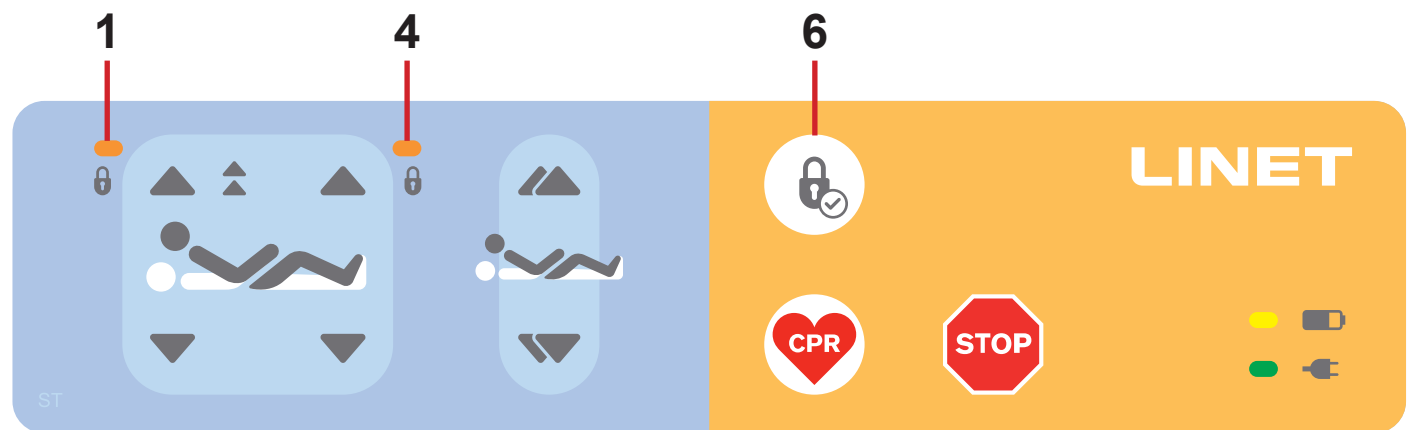


Fig. Lock Button and Lock LED Indicators on the Siderail Control Panel

1. Backrest Adjustment Lock LED Indicator (ON - locked)
4. Thighrest Adjustment Lock LED Indicator (ON - locked)
6. Lock Button

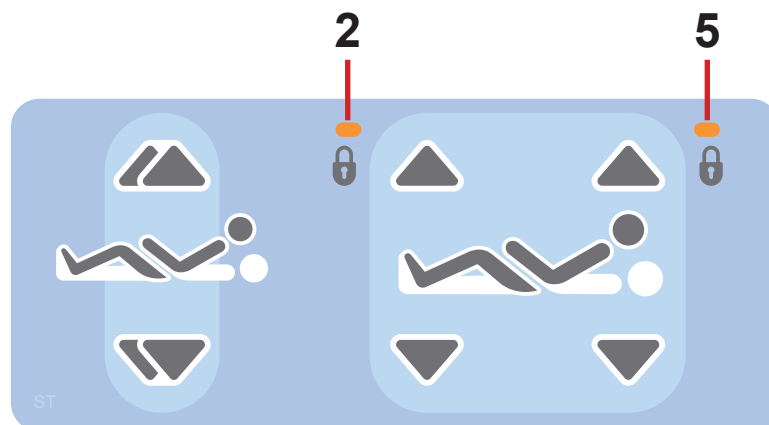


Fig. Lock LED Indicators on the Patient Control Panel

2. Thighrest Adjustment Lock LED Indicator (ON - locked)
5. Backrest Adjustment Lock LED Indicator (ON - locked)

16.1 Locking

To lock Backrest Adjustment:

- ▶ Press Lock Button.
- Lock LED Indicators **1** and **4** on the Siderail Control Panel are flashing.
- Lock LED Indicators **2** and **5** on the Patient Control Panel are flashing.
- ▶ Press any **Backrest Adjustment Button** during flashing of the LEDs.
- Lock LED Indicator **1** on the Siderail Control Panel is illuminated.
- Lock LED Indicator **5** on the Patient Control Panel is illuminated.
- Backrest Adjustment is disabled for the corresponding control elements.

To lock Thighrest Adjustment:

- ▶ Press Lock Button.
- Lock LED Indicators **1** and **4** on the Siderail Control Panel are flashing.
- Lock LED Indicators **2** and **5** on the Patient Control Panel are flashing.
- ▶ Press any **Thighrest Adjustment Button** during flashing of the LEDs.
- Lock LED Indicator **4** on the Siderail Control Panel is illuminated.
- Lock LED Indicator **2** on the Patient Control Panel is illuminated.
- Thighrest Adjustment is disabled for the corresponding control elements.

Lock Button for Locking and Unlocking:



16.2 Unlocking

To unlock Backrest Adjustment:

- ▶ Press Lock Button.
- Lock LED Indicators **1** and **4** on the Siderail Control Panel are flashing.
- Lock LED Indicators **2** and **5** on the Patient Control Panel are flashing.
- ▶ Press any **Backrest Adjustment Button** during flashing of the LEDs.
- Lock LED Indicator **1** on the Siderail Control Panel is not illuminated.
- Lock LED Indicator **5** on the Patient Control Panel is not illuminated.
- Backrest Adjustment is enabled again for the corresponding control elements.

To unlock Thighrest Adjustment:

- ▶ Press Lock Button.
- Lock LED Indicators **1** and **4** on the Siderail Control Panel are flashing.
- Lock LED Indicators **2** and **5** on the Patient Control Panel are flashing.
- ▶ Press any **Thighrest Adjustment Button** during flashing of the LEDs.
- Lock LED Indicator **4** on the Siderail Control Panel is not illuminated.
- Lock LED Indicator **2** on the Patient Control Panel is not illuminated.
- Thighrest Adjustment is enabled again for the corresponding control elements.

Lock Button for Locking and Unlocking:



17 Scales Control (only Sprint 400 with scales)



WARNING!

Risk of injury due to incorrect use of scales!

- Scales system LW20 has no direct diagnostic effect on the application of nutrition and medications!
- Staff expert assessment is needed to consider the correct application of nutrition and medications!

Scales and Bed Exit Alarm Monitoring Control Panel is situated at foot end of the Sprint 400 with scales.
Long press on a button of the control panel (lasting more than 60s) causes keyboard fault.

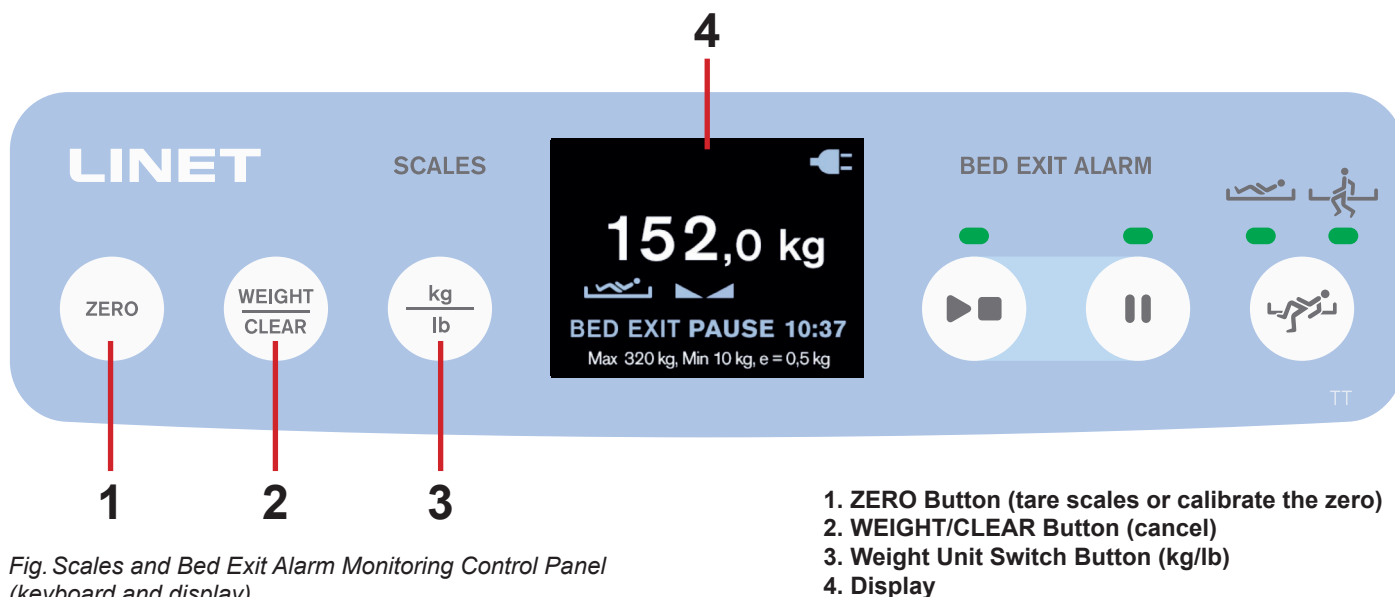


Fig. Scales and Bed Exit Alarm Monitoring Control Panel
(keyboard and display)

17.1 Preparation



CAUTION!

Incorrect use of scales due to incomplete preparation!

- Before each patient admission zero the scales.
- Do not add accessories on the stretcher and do not remove accessories from the stretcher during weighing!

- Install mattress and accessories to prepare stretcher before patient admission and using the scales.

17.2 Displaying

Display shows the calibrated and metrological weight value.
Verification Scale Interval is 0,5 kg.

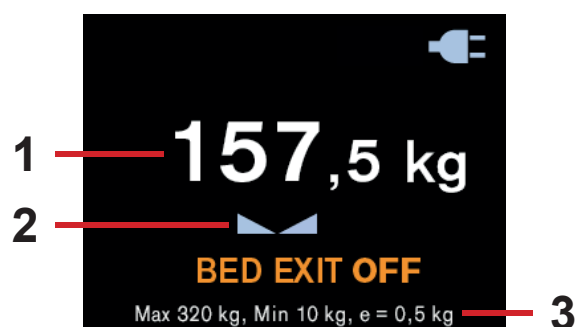


Fig. Display description (scales)

1. Weight value with unit of weight (kg/lb)
2. Stabilized Scales Icon
3. Scales Specification (Max - maximum capacity of the weighing instrument, Min - minimum capacity of the weighing instrument, e - verification scale interval)

To display weight value:

- ▶ Press ZERO Button or WEIGHT/CLEAR Button.
- Weight value is shown for 30s.

17.2.1 Discrete Mode

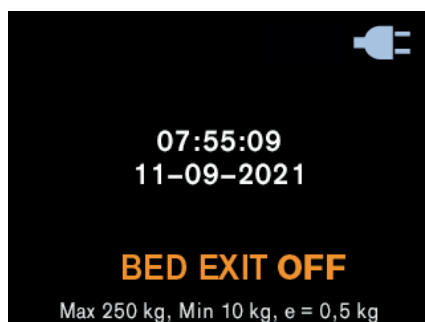


Fig. Discrete Mode

Weight value is not shown on the display unless ZERO Button or WEIGHT/CLEAR Button has been pressed.

Time and Date is displayed in the Discrete Mode.

17.3 Zeroing

Zeroing can be done in a range of 6,4kg to 319,5kg. Zeroing is used to set "0" on the display before placing the patient on the stretcher.

Zeroing must be done with an unloaded stretcher with mattress, bed sheets, pillows and necessary accessories, without the patient. It is recommended to position mattress support platform about 20 cm above the lowest horizontal position.

To zero scales:

- ▶ Ensure that nothing and nobody touches the stretcher except you.
- ▶ Press and hold ZERO Button until **IN PROGRESS...** appears on the display and weight value starts to flash.
- ▶ Release ZERO Button.

PRESS ZERO appears on the display.

- ▶ Press ZERO Button again.
- ▶ Wait until a beep indicates stabilized scales during Zeroing.

"0" is shown on the display.

Place the patient on the stretcher.

To cancel Zeroing:

- ▶ Press WEIGHT/CLEAR Button while Zeroing.

Status of the Zeroing	Signalisation
1) First step of the Zeroing: processing after the press and hold of the ZERO Button.	
2) Second step of the Zeroing: instruction to press ZERO Button again.	
3) Third step of the Zeroing: "0" is shown on the display.	

17.4 Stretcher Overload

If load on the stretcher is over 330 kg:

- ▶ Warning pop-up window is shown on the display.

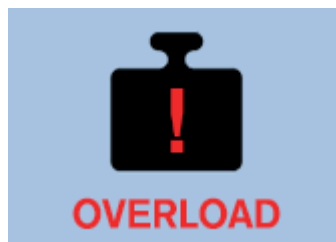


Fig. Sprint 400 with scales is overloaded (pop-up)

17.5 Stretcher Underload

If the stretcher is underloaded:

- ▶ Display shows the „LOW“.

17.6 Weighing in tilt

It is possible to use the scales in any position of the mattress support platform of the Sprint 400 with scales if its undercarriage is situated on the horizontal floor.

17.7 Calibration of the Zero

Calibration of the Zero is only possible in a range of $\pm 6,4\text{kg}$ from factory zero. Calibration of the Zero is used to reset weight on the display and set up user zero, which sets the maximum weight range of the weighing system. Calibration of the Zero must be done with an empty, unloaded stretcher, without the mattress and accessories. Calibration of the Zero is done after installation, weight verification or servicing.

To calibrate the Zero:

- ▶ Position the stretcher about 20 cm above the lowest position and set the mattress support platform to the horizontal position. Ensure that nothing touches the stretcher except you.
- ▶ Press and hold ZERO Button until weight value starts to flash. Release ZERO Button.
- ▶ Press ZERO Button to confirm Calibration of the Zero.

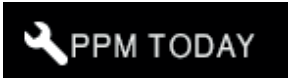
“0” is shown on the display and an acoustic signal confirms Calibration of the Zero.

To cancel the Calibration of the Zero:

- ▶ Press WEIGHT/CLEAR Button while Calibration of the Zero.

17.8 Pop-up windows connected with Scales Control

Pop-up windows are indicated on the display of Scales and Bed Exit Alarm Control Panel.

Status (Pop-up window)	Meaning	How to change the status
	Scales fault (fault number starts with letter F).	Contact service department approved by manufacturer.
	Fault of the communication between scales system components.	Contact service department approved by manufacturer.
	Fault of the Scales and Bed Exit Alarm Monitoring Control Panel. This fault can be caused by an object pushing on the keyboard or by a long press on a button of the Control Panel lasting more than 60s or by the damaged keyboard.	Contact service department approved by manufacturer if cause of this fault cannot be removed from the keyboard.
	User is asked to set the time if Sprint 400 with scales was firstly connected to the mains or the accumulator isolating foil was removed.	Set the time in the Settings Menu (see „18.9 Settings Menu“ on the page 91).
	Sprint 400 stretcher requires the periodic preventive maintenance (PPM). This notification appears each 6 hours if the periodic preventive maintenance is still required.	Contact service department approved by manufacturer.

17.9 Basic technical parameters of the LW20 scales system

Parameter	Value	Unit
Capacity of the Weighing Instrument	Configuration Parameter (CP) (5 000 – 500 000)	g
Lowest Load	CP (0 – 50 000)	g
Scale Interval (Displayed Scale Interval and Verification Scale Interval)	CP (50 – 5 000)	g
Displayed Scale Interval (optional for US market)	CP (100 – 10 000)	lb
Number of Tensometric Sensors	CP (1 – 4)	piece
Highest Tare Value	Maximum Capacity of the Weighing Instrument minus 1 Verification Scale Interval	g
Range of the User Zero from Factory Zero (symmetrically negative and positive value)	CP (0 – 250)	‰
Highest Weight Value with zero Tare Value (from User Zero)	9 Verification Scale Intervals above the maximum Capacity of the Weighing Instrument	g
Lowest Weight Value with zero Tare Value (from User Zero)	–9 Verification Scale Intervals	g
Overload Notification	CP (5 000 – 500 000)	g
Maximum Load on each Tensometric Sensor (Mattress Support Platform included)	CP (10 000 – 1 200 000)	g
Period of transition to the Discrete Mode since the last press of the ZERO button, the WEIGHT/CLEAR button or the kg/lb button or since the Taring	30	s
Period of the automatic cancelling of Taring	30	s
Period of transition from the full backlight brightness to the reduced backlight brightness since the last press of a button, since the Taring or since the system start	30	s
Period of switching off since the last press of a button, since the system start, since the Taring or since the displaying of a pop-up window when the scales system is powered by batteries	10	s
Level of the reduced backlight brightness in relation to the full backlight brightness	30	%

18 Bed Exit Alarm Monitoring (for Sprint 400 with scales only)



WARNING!

It is not possible to use Bed Exit Alarm Monitoring when Sprint 400 with scales is disconnected from the mains power! No Bed Exit Alarm can be triggered when Sprint 400 with scales is disconnected from the mains power!



WARNING!

Do not use Bed Exit Alarm Monitoring and do not rely on the acoustic Bed Exit Alarms if no beep sounds after the activation of the Bed Exit Alarm Monitoring!

Bed Exit Alarm Monitoring is intended for informing the hospital personnel about highly probable patient's absence in ordered position on the Sprint 400 with scales. Bed Exit Alarm Monitoring triggers alarms when it detects that patient is not present in the expected position. These alarms are classified as the alarms with medium priority. Hospital personnel must stand before the Scales and Bed Exit Alarm Monitoring Control Panel at stretcher foot end when setting the Bed Exit Alarm Monitoring functions.

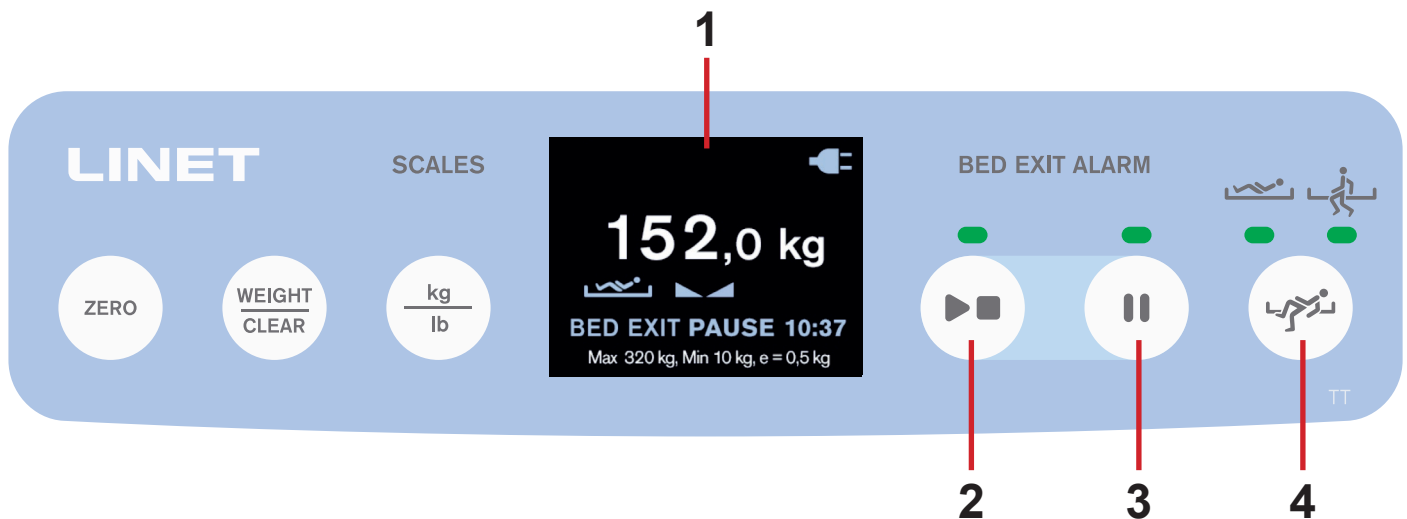


Fig. Scales and Bed Exit Alarm Monitoring Control Panel (keyboard and display)

1. Display

2. PLAY/STOP Button with Green Indicator above (lit green indicator - monitoring ON, not lit green indicator - monitoring OFF)

3. PAUSE Button with Green Indicator above (lit green indicator - monitoring PAUSED, not lit green indicator - monitoring NOT PAUSED)

4. Bed Exit Alarm Monitoring Button with 2 Green Indicators above (lit left green indicator - Inner Zone monitoring activated, lit right green indicator - Outer Zone monitoring activated)

18.1 Preparation

- ▶ Place a patient on the stretcher with suitable mattress.
- ▶ Place the patient towards the middle of the stretcher for the correct function of the Bed Exit Alarm Monitoring in Inner Zone.

To verify the functionality of the alarm system:

- ▶ Ensure a beep sounds after the activation of the Bed Exit Alarm Monitoring!
- ▶ Do not use Bed Exit Alarm Monitoring and do not rely on the acoustic Bed Exit Alarms if no beep sounds after the activation of the Bed Exit Alarm Monitoring!

18.2 Displaying

Display shows statuses and settings of the Bed Exit Alarm Monitoring.



Fig. Display description (Bed Exit Alarm Monitoring)

Indicator	Meaning
	Inner Zone Monitoring
	Outer Zone Monitoring

1. Indicator of Monitored Zone (Inner Zone or Outer Zone)
2. Status of Bed Exit Alarm Monitoring

Status	Meaning
BED EXIT ON	Bed Exit Alarm Monitoring is activated and alarms can be triggered.
BED EXIT OFF	Bed Exit Alarm Monitoring is deactivated and alarms cannot be triggered.
BED EXIT PAUSE 14:59	Bed Exit Alarm Monitoring is PAUSED and alarms cannot be triggered for 15 minutes.
BED EXIT WAITING	Operator activates Bed Exit Alarm Monitoring without patient on the Sprint 400 with scales. Bed Exit Alarm Monitoring will be activated after patient will be detected on the stretcher.

18.3 Activation

To activate Bed Exit Alarm Monitoring:

- ▶ Press PLAY/STOP Button (2) when patient is on the stretcher.
- BED EXIT ON is displayed on the display.
 Beep sounds after the activation of Bed Exit Alarm Monitoring.
 Left Green Indicator above the Bed Exit Alarm Monitoring Button (4) is lit and Inner Zone Monitoring is activated by default.

If you press PLAY/STOP Button (2) without patient on the stretcher, the Bed Exit Alarm Monitoring is not activated.

BED EXIT WAITING is displayed on the display.

Minimum patient weight for Bed Exit Alarm Monitoring is **35 kg**.

Bed Exit Alarm Monitoring will be activated after patient will be detected on the stretcher.

18.4 Monitored Zone

Bed Exit Monitoring provides Inner Zone Monitoring or Outer Zone Monitoring.

The Inner Zone detects shifts in weight on the mattress support platform within a limited field of coverage.

The Outer Zone detects whether weight is on the mattress support platform.

Inner Zone Monitoring is set by default.

To set Outer Zone Monitoring:

- ▶ Press Bed Exit Alarm Monitoring Button (4) when Left Green Indicator above this button is lit.
- Right Green Indicator above the Bed Exit Alarm Monitoring Button (4) is lit and Outer Zone Monitoring is activated.

To set Inner Zone Monitoring:

- ▶ Press Bed Exit Alarm Monitoring Button (4) when Right Green Indicator above this button is lit.
- Left Green Indicator above the Bed Exit Alarm Monitoring Button (4) is lit and Inner Zone Monitoring is activated.

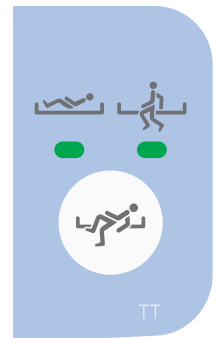


Fig. Bed Exit Alarm Monitoring Button with 2 Green Indicators above

18.5 PAUSE

During PAUSE mode the Bed Exit Alarm Monitoring is temporarily interrupted and alarms are not activated.

PAUSE period is terminated automatically and the Bed Exit Alarm Monitoring is reactivated again when patient returns just to the selected zone.

To PAUSE Bed Exit Alarm Monitoring:

- ▶ Press PAUSE Button (3).
- Green indicator above PAUSE Button is lit.
 Before terminated PAUSE period when patient is in ordered position, the Bed Exit Alarm Monitoring is reactivated again.

To extend the PAUSE period:

- ▶ Press PAUSE Button (3) to extend the countdown to 15 minutes period again.

To terminate the PAUSE period:

- ▶ Press PLAY/STOP Button (2).

18.6 Bed Exit Alarm

Audible alarm is triggered when patient has left selected monitored zone or when PAUSE period is terminated and patient is not just in the ordered position.

To stop Alarm:

- ▶ Press PLAY/STOP Button (2).

Bed Exit Monitoring is deactivated and BED EXIT OFF is displayed on the screen.

The audible alarm is muted.

To pause Alarm:

- ▶ Press PAUSE Button (3).

Countdown timer (15 min) appears on the display. The audible alarm is muted.



Fig. Visual signalisation of the Bed Exit Alarm on the display (yellow field and black symbols)



Fig. Two pictures alternating during triggered Bed Exit Alarm

18.7 Deactivation

To deactivate Bed Exit Alarm Monitoring:

- ▶ Press PLAY/STOP Button (2).

BED EXIT OFF is displayed on the display.

18.8 Pop-up windows connected with Bed Exit Alarm Monitoring

Status (Pop-up window)	Meaning	How to change the status
 PLUG IN TO ENABLE BEA	Sprint 400 with scales is disconnected from the mains when operator turns on the Bed Exit Alarm Monitoring.	Connect Power Supply Cord to the mains and activate the Bed Exit Alarm Monitoring.
 BED IS UNPLUGGED BEA IS DEACTIVATED	Bed Exit Alarm Monitoring is activated and Sprint 400 with scales becomes disconnected from the mains.	Connect Power Supply Cord to the mains.

18.9 Settings Menu

Operator is authorized to display scales verification, to check software and hardware versions, to set time and date, to set time and date format and to set weight unit in the Settings Menu.

To enter Settings Menu:

- Press Bed Exit Alarm Monitoring Button for 3s.
Settings Menu is opened only for 60s unless adjustment follows.

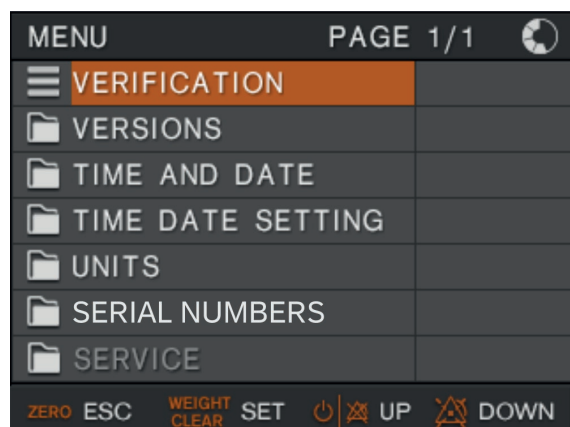


Fig. Settings Menu



Fig. Verification Screen

To enter Verification Screen:

- Use PLAY/STOP Button or PAUSE Button to select the line VERIFICATION.
- Press WEIGHT/CLEAR Button to confirm the selection.

Parameter	Meaning
BSCD	version of the LW20 scales system
LCDS	version of the control panel with display
CALIBRATION COUNTER	number of changes of the legally relevant parameters (e.g. calibrations)
G LOC	local gravitational constant
G CAL	calibrated gravitational constant

To enter Versions Screen:

- Use PLAY/STOP Button or PAUSE Button to select the line VERSIONS.
- Press WEIGHT/CLEAR Button to confirm the selection.

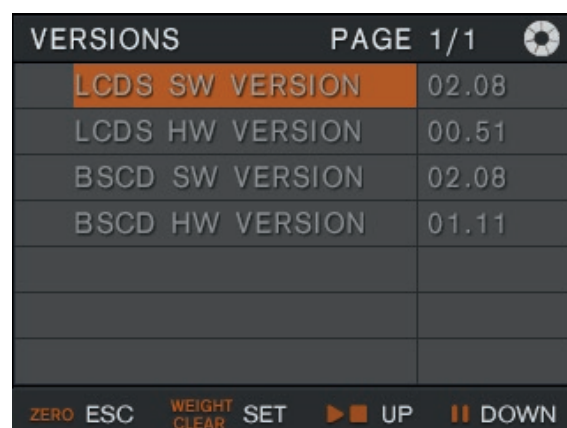


Fig. Software and Hardware Versions Screen

18.9.1 Time and Date Settings

To enter Settings Menu:

- ▶ Press Bed Exit Alarm Monitoring Button for 3s.
Settings Menu is opened only for 60s unless adjustment follows.

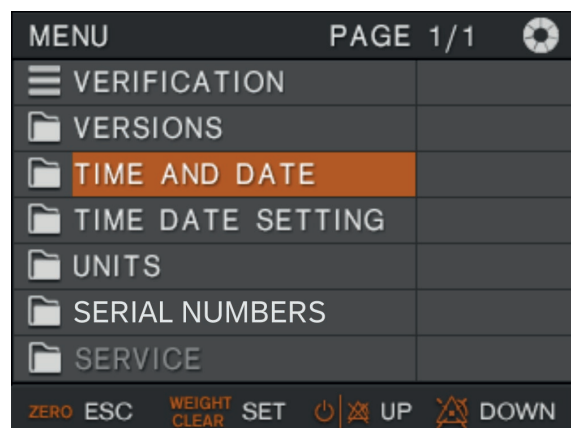


Fig. Settings Menu (TIME AND DATE)

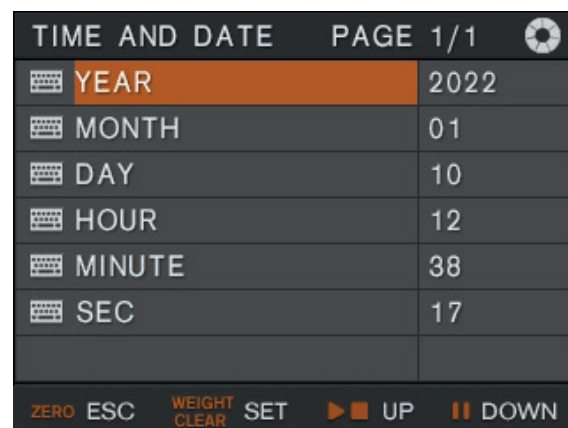


Fig. TIME AND DATE Menu

To select TIME AND DATE:

- ▶ Use PLAY/STOP Button or PAUSE Button to select the line TIME AND DATE.
- ▶ Press WEIGHT/CLEAR Button to confirm the selection.
- ▶ Use PLAY/STOP Button or PAUSE Button to select the parameter to be changed.
- ▶ Press WEIGHT/CLEAR Button to confirm the selection.
- ▶ Use PLAY/STOP Button or PAUSE Button to set the required value.
- ▶ Press WEIGHT/CLEAR Button to confirm the change.

To leave the Settings Menu:

- ▶ Press ZERO Button.

18.9.2 Time and Date Format Settings

To enter Settings Menu:

- ▶ Press Bed Exit Alarm Monitoring Button for 3s.
Settings Menu is opened only for 60s unless adjustment follows.

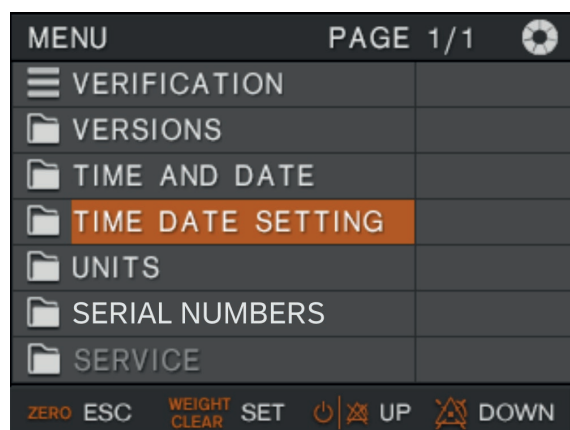


Fig. Settings Menu (TIME DATE SETTING)

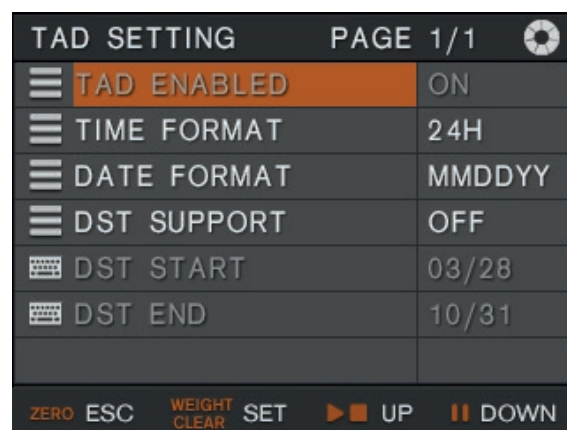


Fig. TIME DATE SETTING Menu

To select TIME AND DATE:

- ▶ Use PLAY/STOP Button or PAUSE Button to select the line TIME DATE SETTING.
- ▶ Press WEIGHT/CLEAR Button to confirm the selection.
- ▶ Use PLAY/STOP Button and PAUSE Button to select the parameter to be changed.
- ▶ Press WEIGHT/CLEAR Button to confirm the selection.
- ▶ Use PLAY/STOP Button and PAUSE Button to set the required value.
- ▶ Press WEIGHT/CLEAR Button to confirm the change.

Parameter	Meaning
TIME FORMAT	12 hours or 24 hours
DATE FORMAT	day-month-year or month-day-year or year-month-day
DST SUPPORT	daylight saving time (ON or OFF)
DST START	day when the daylight saving time starts
DST END	day when the daylight saving time ends

To leave the Settings Menu:

- ▶ Press ZERO Button.

18.10 Basic technical parameters of the Bed Exit Alarm Monitoring

Parameter	Value	Unit
Minimum Load for Bed Exit Alarm Monitoring activation	35	kg
Dimensions of the monitored Inner Zone	400 × 350	mm × mm
Minimum decrease of patient weight to alarm activation	15	%
Automatic alarm deactivation after patient's return to stretcher	7	s
Period of interrupted monitoring (PAUSE) after the press of PAUSE button	15	min
Period of patient's being outside the stretcher to the automatic end of PAUSE after patient's return to the stretcher	≥ 5	s
System reaction to the decrease of weight or to the patient's leaving the monitored zone	≤ 1,5	s
Alarm activation during scales system failure and activated monitoring	≤ 3	s
Alarm activation during scales system failure ascertained immediately after (re)start if the monitoring was activated before switching off	≤ 1,5	s

19 Equipment

Product equipment depends on product configuration.

19.1 Accessory Rail with plastic hooks



CAUTION!

It is not recommended to place the hooks suspended on the accessory rail and the accessories suspended on these hooks directly above the pedals on the sides of Sprint 400 in order to facilitate the use of pedals during stretcher height adjustment and the use of brake pedals during stretcher transport!

Accessory rail with 4 plastic hooks is intended for hanging accessories.

It is located on the sides of stretcher or at head end / foot end.

Power Supply Cord in safety position must be wound around the Accessory Rail at head end.

Maximum load of the Accessory Rail is 10 kg without leverage.

Maximum load of the plastic hook intended for the Accessory Rail is 2 kg.

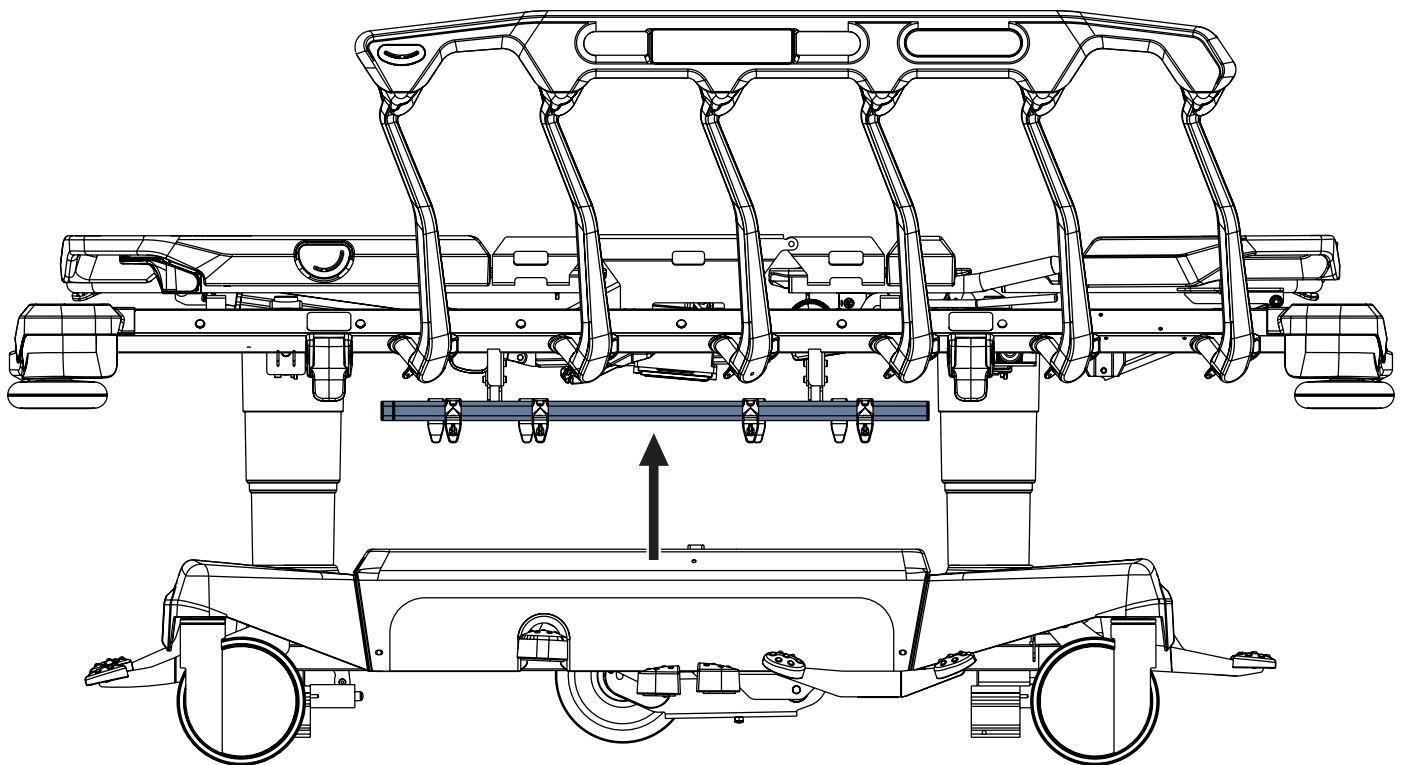


Fig. Accessory Rail with plastic hooks on the stretcher side

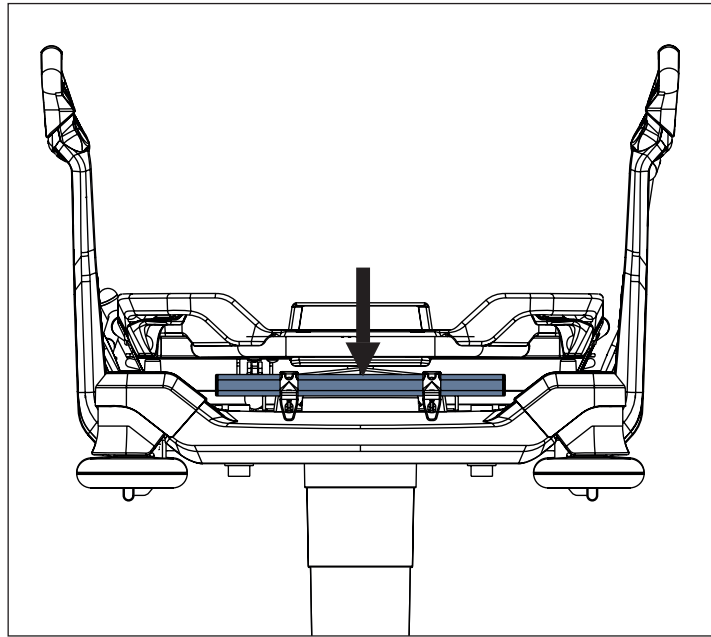


Fig. Accessory Rail with plastic hooks (at head end)

19.2 DIN Rail

DIN Rail is intended for hanging accessories.
It is located on the sides of stretcher.
Maximum load of the DIN Rail is 10 kg without leverage.

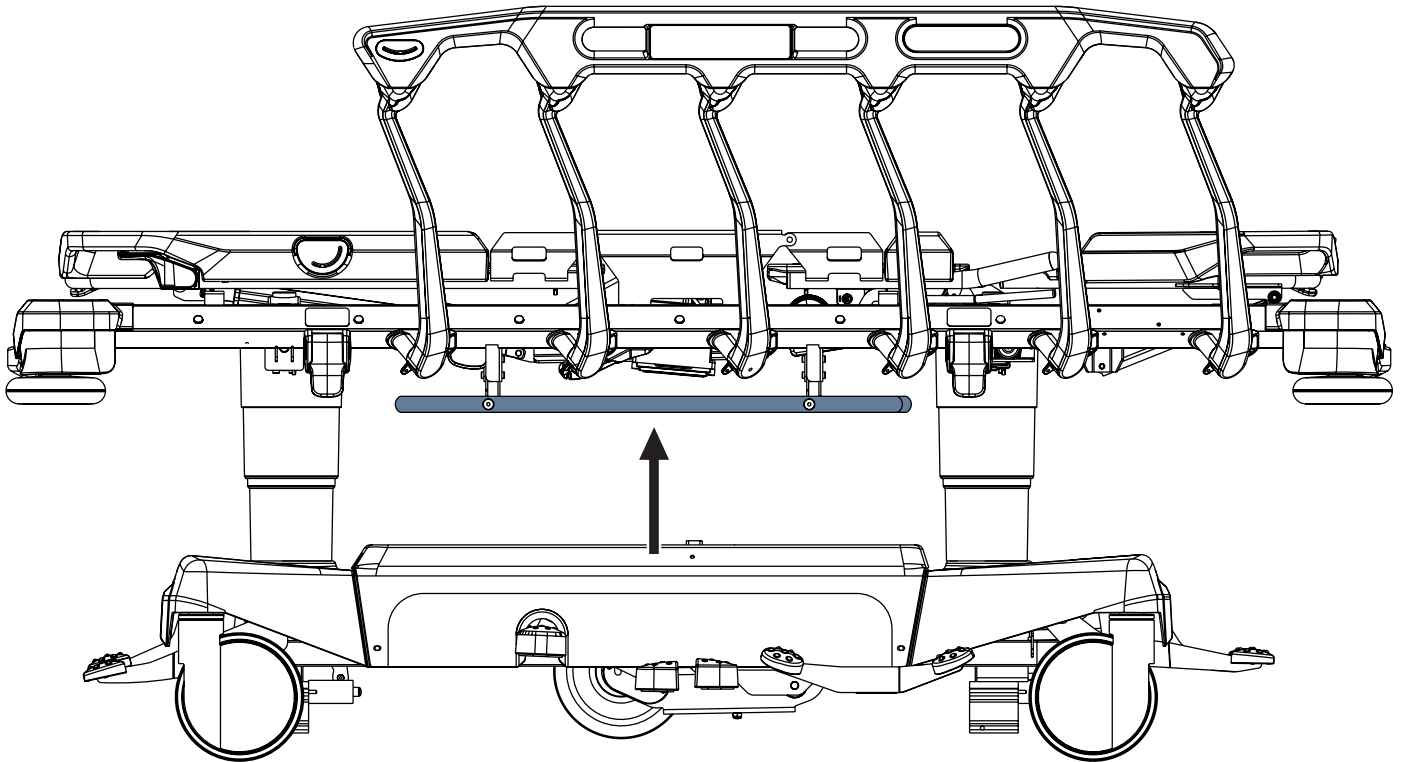


Fig. DIN Rail on the stretcher side

19.3 Urinary Bag Holders

Urinary Bag Holder is located on both stretcher sides at foot end of the stretcher under the calfrest.
Only Urinary Bag is intended to be suspended on the Urinary Bag Holder.
Maximum Load of the Urinary Bag Holder is 3 kg.

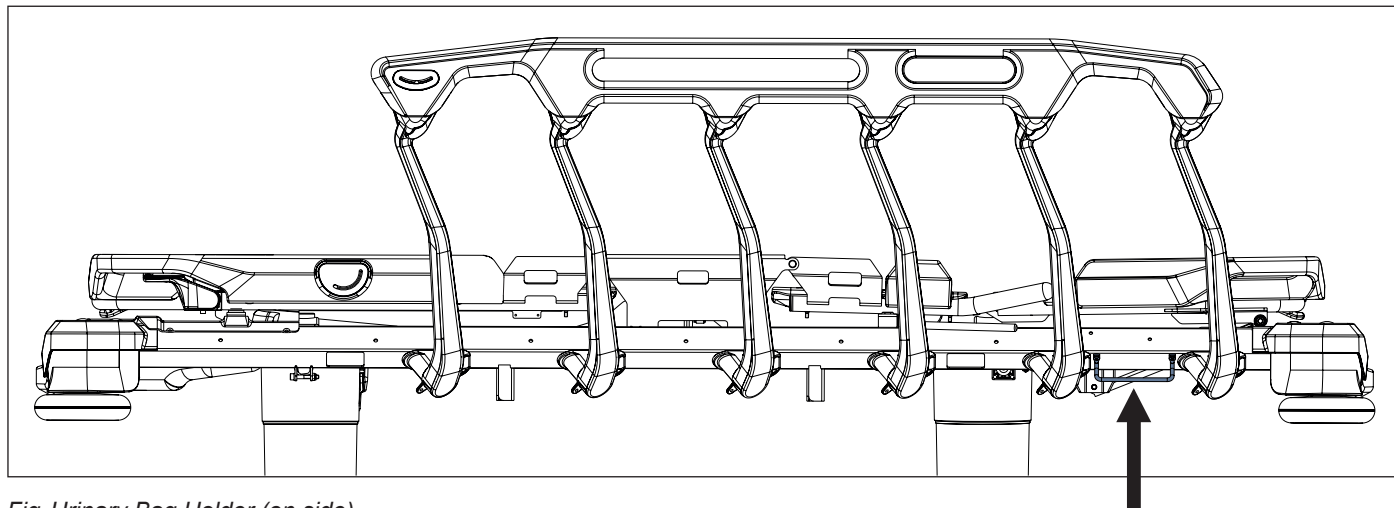


Fig. Urinary Bag Holder (on side)

19.4 Undercarriage Cover



CAUTION!

Risk of material damage due to objects on the undercarriage cover!

- ▶ Do not place objects on the undercarriage cover outside storage space!
- ▶ Respect dimensions of objects placed in storage spaces of the undercarriage cover during lifting, lowering and tilting of the stretcher!

Longitudinal storage space (1) is intended for oxygen bottle (with capacity 10 litres (type E only), 5 litres or less). Suitable oxygen bottle can be fixed with quick-release strap.

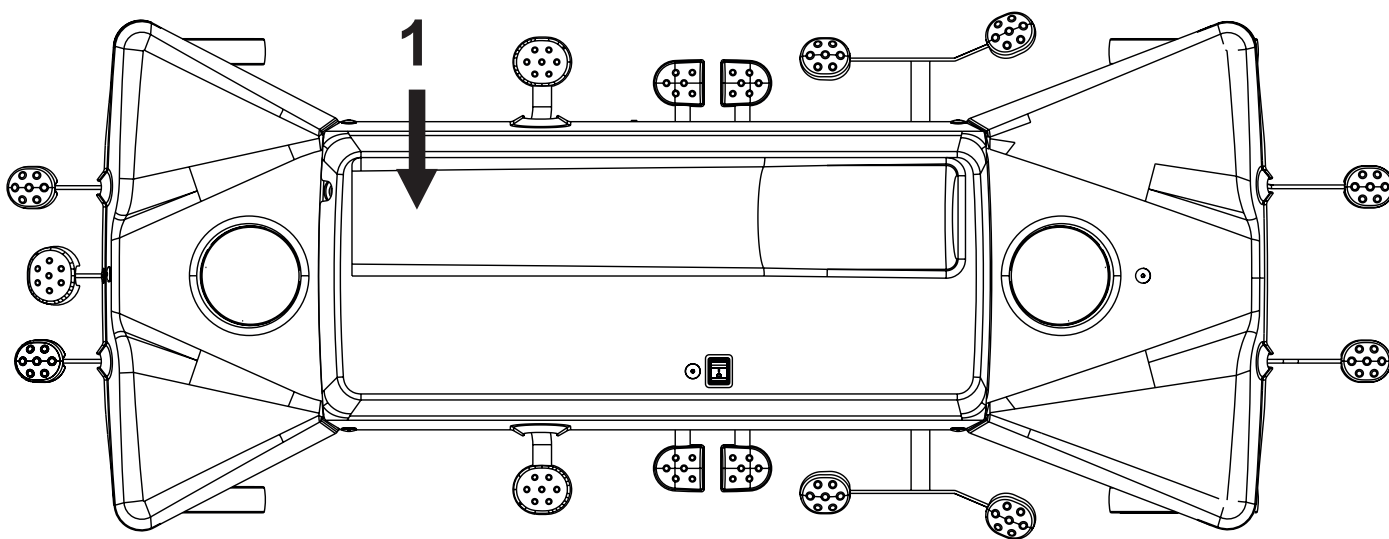


Fig. Storage space (Undercarriage Cover of the Sprint 400 with i-Drive Power)

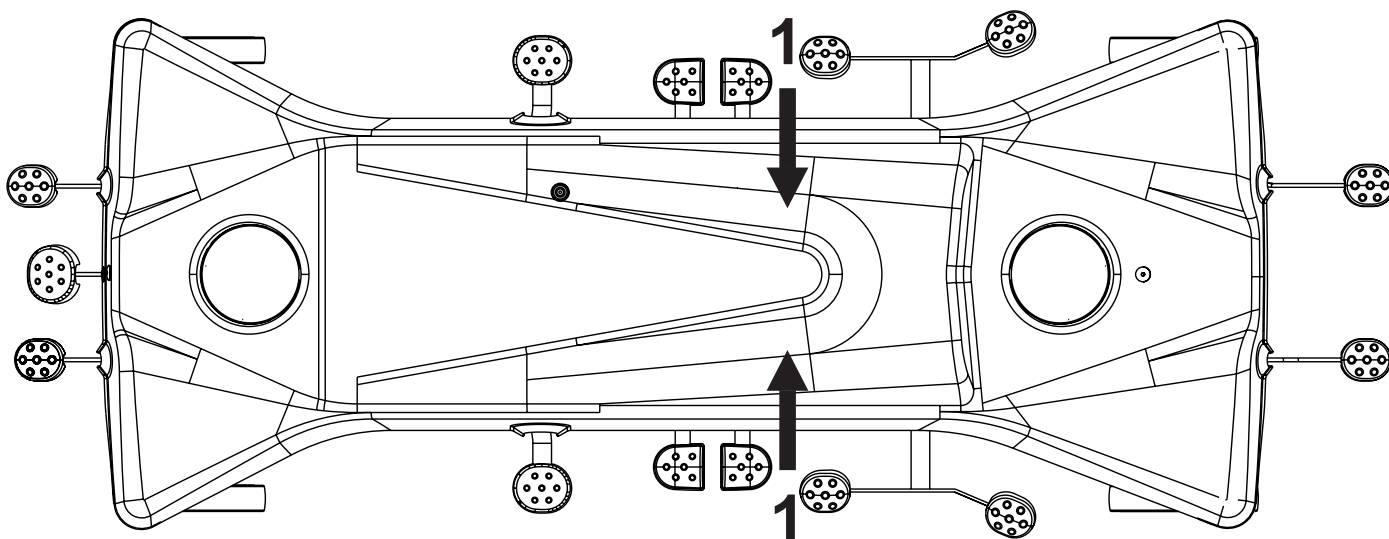


Fig. Storage space (Undercarriage Cover of the Sprint 400 without i-Drive Power)

19.4.1 Straps for oxygen bottles

Undercarriage cover of the Sprint 400 without i-Drive Power is equipped with 2 straps for oxygen bottles.
Undercarriage cover of the Sprint 400 with i-Drive Power is equipped with 1 strap for oxygen bottle.

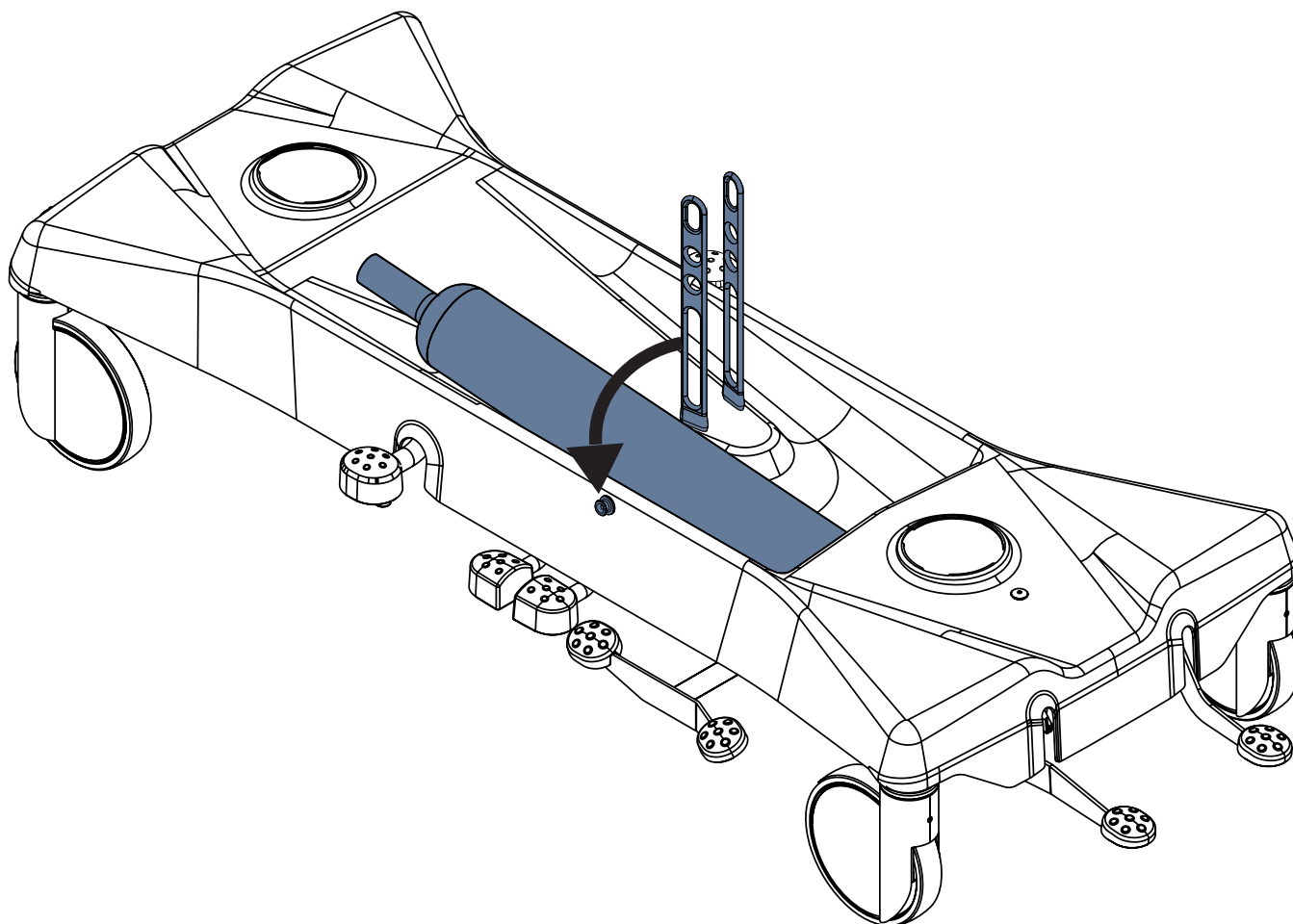


Fig. Fixation of an oxygen bottle on the undercarriage cover with straps for oxygen bottles

To fix the compatible oxygen bottle on the undercarriage cover:

- ▶ Place a compatible oxygen bottle to the undercarriage cover.
- ▶ Fix the oxygen bottle with the strap for oxygen bottle so that the strap for oxygen bottle will be hooked onto the stopper located on the undercarriage cover opposite the strap.
- ▶ Ensure the compatible oxygen bottle is fixed on the undercarriage cover.

19.5 FlexiDrive (Sprung Retractable Fifth Castor)

During middle position of pedals Sprung Retractable Fifth Castor is around 12 mm above floor.
When stretcher is braked Sprung Retractable Fifth castor is around 65 mm above floor.

To activate the Fifth castor:

- ▶ Press green Drive pedal to the lower position.

To retract the Fifth castor:

- ▶ Leave all Brake pedals and Drive pedals unpressed in their middle position.

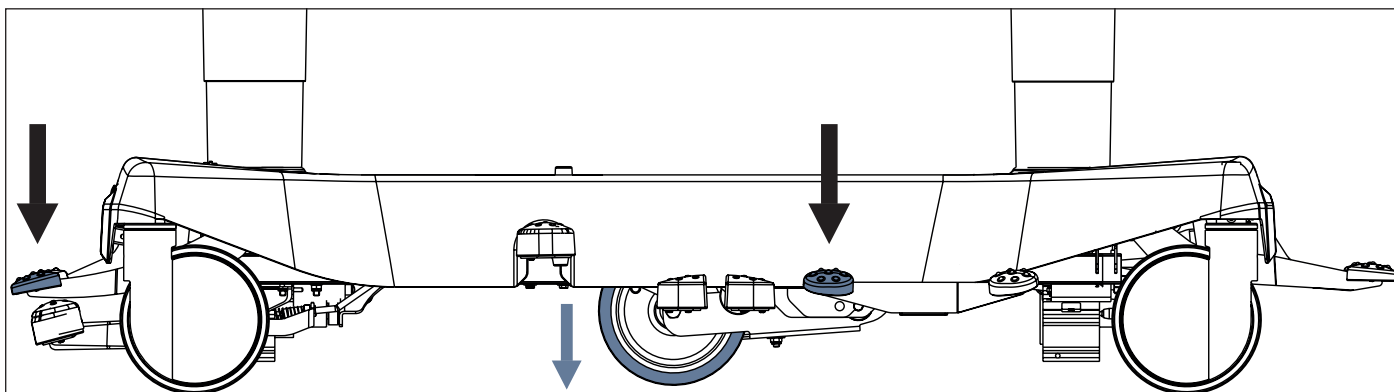


Fig. Activation of Fifth castor

19.6 Sprint 400 with Solido 3

Solido 3 with T-shape undercarriage is compatible with Sprint 400.

19.7 IV&Drive (Infusion Stands/Pushing Handles)



WARNING!

Risk of injury due to incorrect placement of an infusion pump!

- Ensure the infusion pump on the Foldable infusion stand will not collide with any movable parts of the Sprint 400 (especially Backrest) or with the patient!



CAUTION!

Risk of material damage due to incorrect placement of an infusion pump!

- Place an infusion pump carefully on the orange non-telescopic part of the Foldable infusion stand in order to prevent the risk of injury or damage!

Foldable infusion stand equipped with 2 hooks is intended for carrying IV bags or baskets for intravenous solutions.

The pair of Foldable infusion stands can serve as handles for stretcher transport when they are raised.

It is possible to extend height of the Foldable infusion stand and to fold down the Foldable infusion stand again.

Pair of the Foldable infusion stands is located in corners of head end or foot end.

Maximum load of one hook is 5 kg.

The pair of Foldable infusion stands can be equipped with i-Drive Power Control Panel.

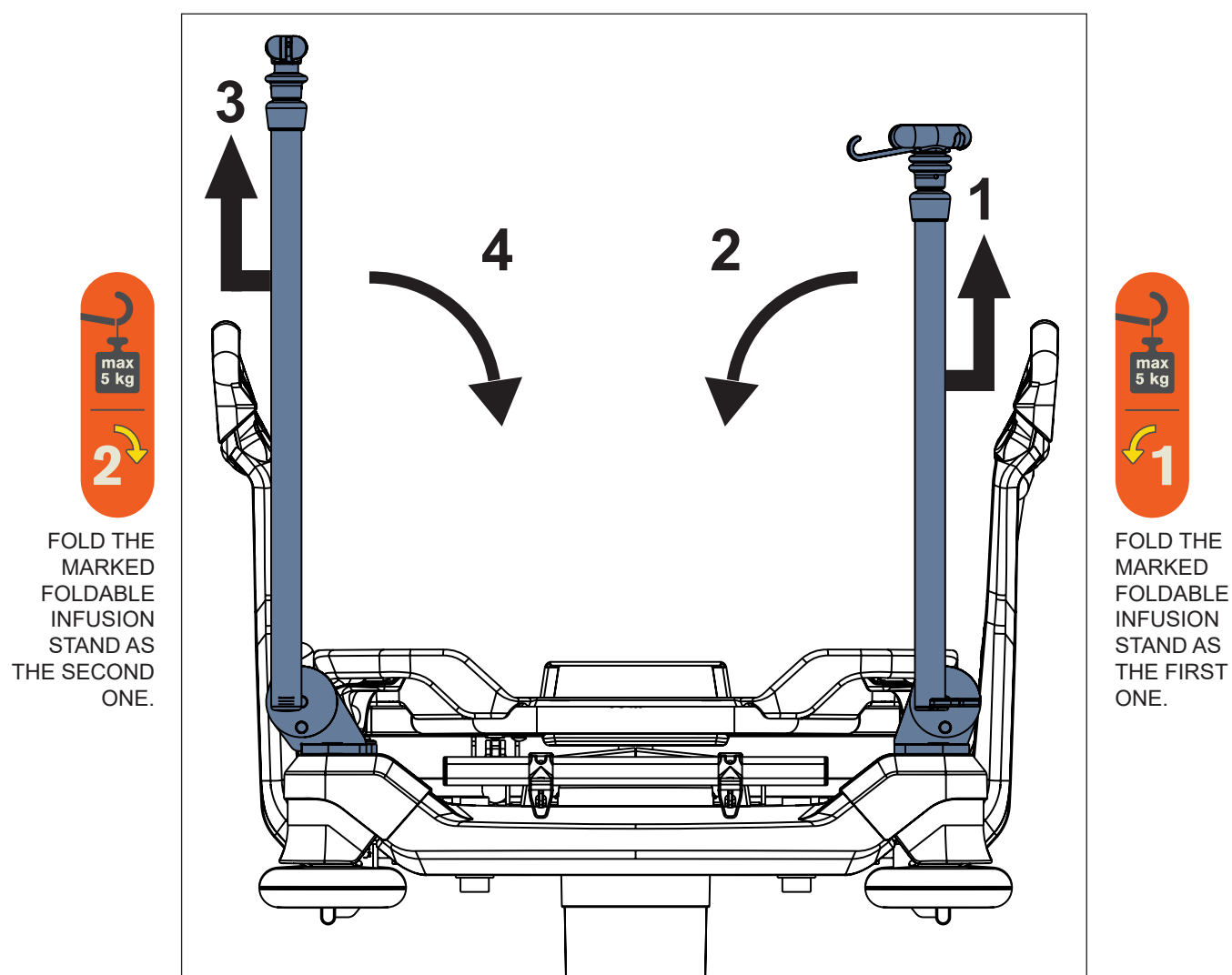


Fig. Pair of Foldable infusion stands (head end)

To fold Foldable infusion stands down:

- ▶ Ensure the right Foldable infusion stand is not extended.
- ▶ Grasp orange bar of the right Foldable infusion stand.
- ▶ Lift the right Foldable infusion stand up (1) to unlock it.
- ▶ Fold the right Foldable infusion stand down (2).
- ▶ Ensure the left Foldable infusion stand is not extended.
- ▶ Grasp orange bar of the left Foldable infusion stand.
- ▶ Lift the left Foldable infusion stand up (3) to unlock it.
- ▶ Fold the left Foldable infusion stand down (4).

To lift Foldable infusion stands up:

- ▶ Grasp orange bar of the left Foldable infusion stand.
- ▶ Lift the left Foldable infusion stand up.
- ▶ Check if the left Foldable infusion stand is locked in place.
- ▶ Grasp orange bar of the right Foldable infusion stand.
- ▶ Lift the right Foldable infusion stand up.
- ▶ Check if the right Foldable infusion stand is locked in place.

To extend Foldable infusion stand:

- ▶ Put control ring up (5).
- ▶ Extend the Foldable infusion stand by taking its telescopic part out.

To shorten Foldable infusion stand:

- ▶ Put control ring up (5).
- ▶ Insert the telescopic part into the Foldable infusion stand.

To prepare hooks of the Foldable infusion stand:

- ▶ Take a hook out (6).

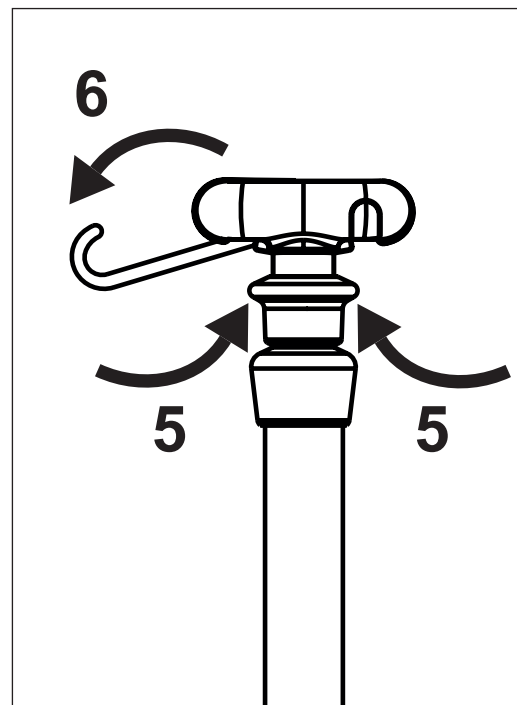


Fig. Control ring and hooks

19.8 Foldable Driving Handles

The pair of Foldable driving handles can serve as handles for stretcher transport when they are raised. Foldable driving handles are located in the corners of stretcher foot end. One Foldable driving handle can be equipped with the i-Drive Power Control Panel.

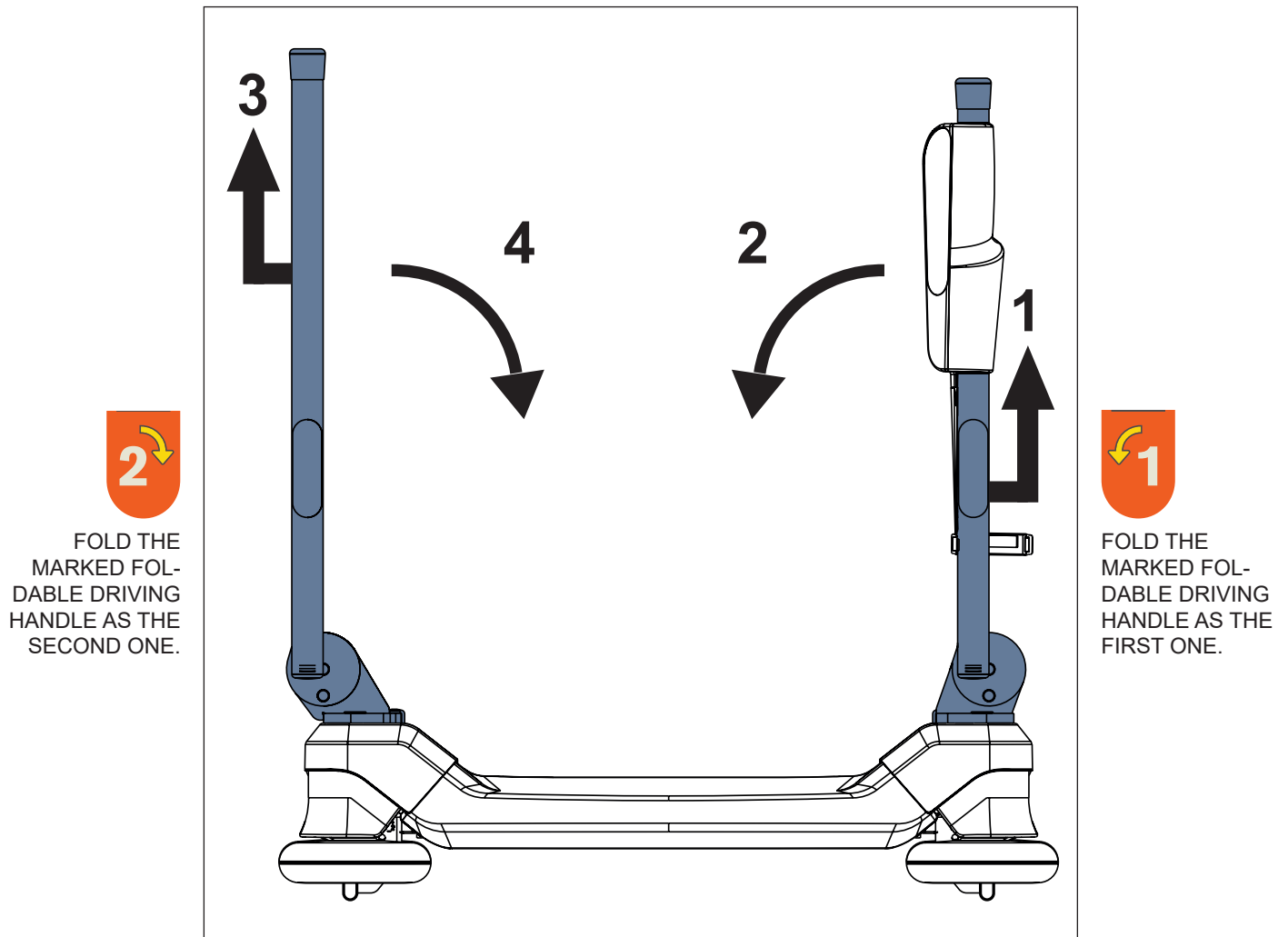


Fig. Pair of the Foldable Driving Handles at stretcher foot end

To fold Foldable driving handles down:

- ▶ Grasp the orange bar of the right Foldable driving handle.
- ▶ Lift the right Foldable driving handle up (1) to unlock it.
- ▶ Fold the right Foldable driving handle down (2).
- ▶ Grasp the orange bar of the left Foldable driving handle.
- ▶ Lift the left Foldable driving handle up (3) to unlock it.
- ▶ Fold the left Foldable driving handle down (4).

To lift Foldable driving handles up:

- ▶ Grasp the orange bar of the left Foldable driving handle.
- ▶ Lift the left Foldable driving handle up.
- ▶ Check if the left Foldable driving handle is locked in place.
- ▶ Grasp the orange bar of the right Foldable driving handle.
- ▶ Lift the right Foldable driving handle up.
- ▶ Check if the right Foldable driving handle is locked in place.

19.9 Handles

Pair of handles is intended for stretcher transport.

The handles are located in head end corners or in foot end corners.

There are 3 types of the handles: removable, foldable or fixed in their positions.

19.9.1 Foldable handles

To fold Foldable handle down:

- ▶ Lift the Foldable handle up (1) to unlock it.
- ▶ Fold the Foldable handle down (2).

To lift Foldable handle up:

- ▶ Lift the Foldable handle up.
- ▶ Check if Foldable handle is locked in place.

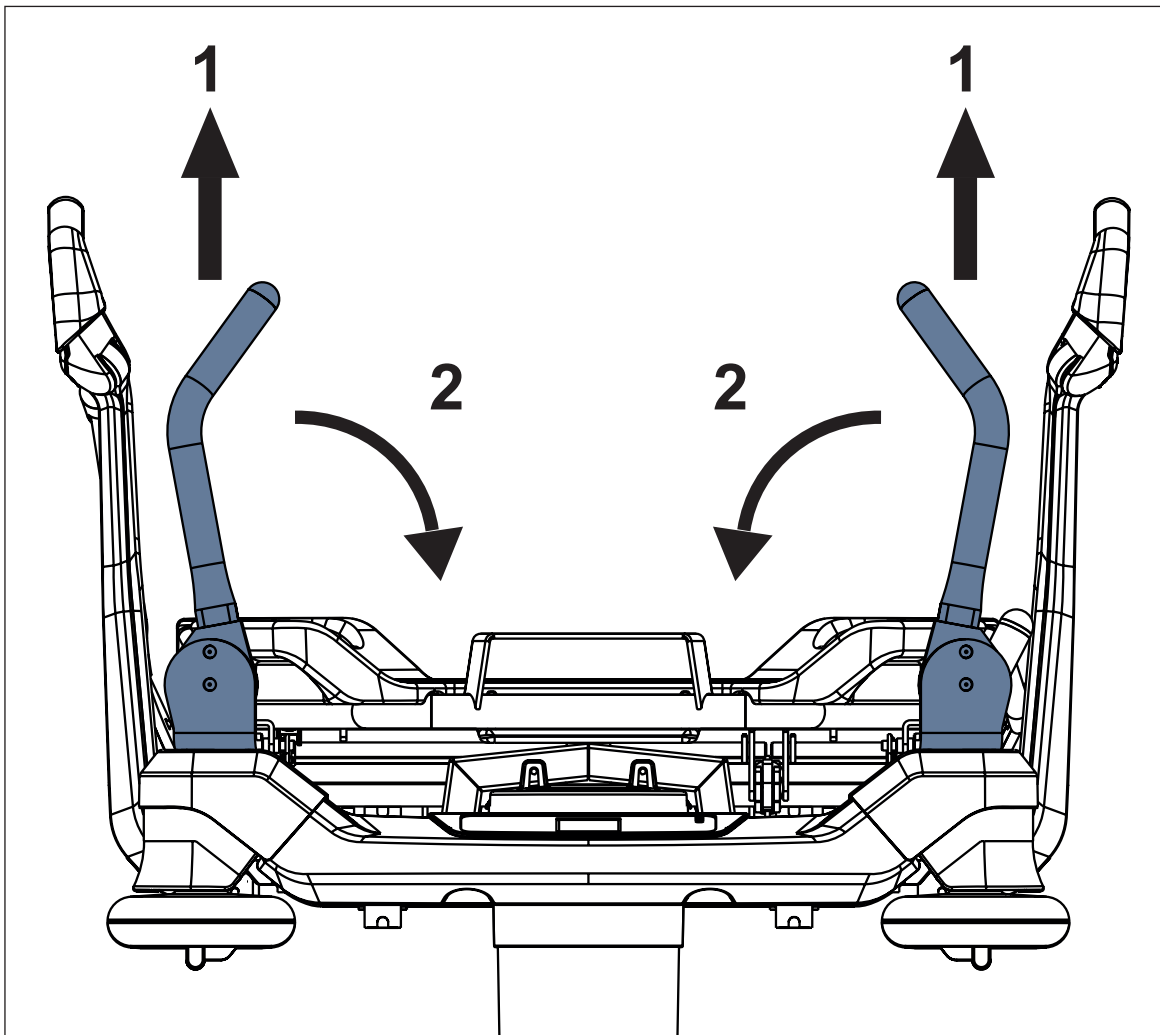


Fig. Foldable handles (foot end)

19.9.2 Fixed handles

Fixed handles are screwed to corners of the stretcher at head end or at foot end. User is not allowed to change positions of the Fixed handles. Removal and installation must be performed by trained service technician according to the corresponding service instruction provided by manufacturer.

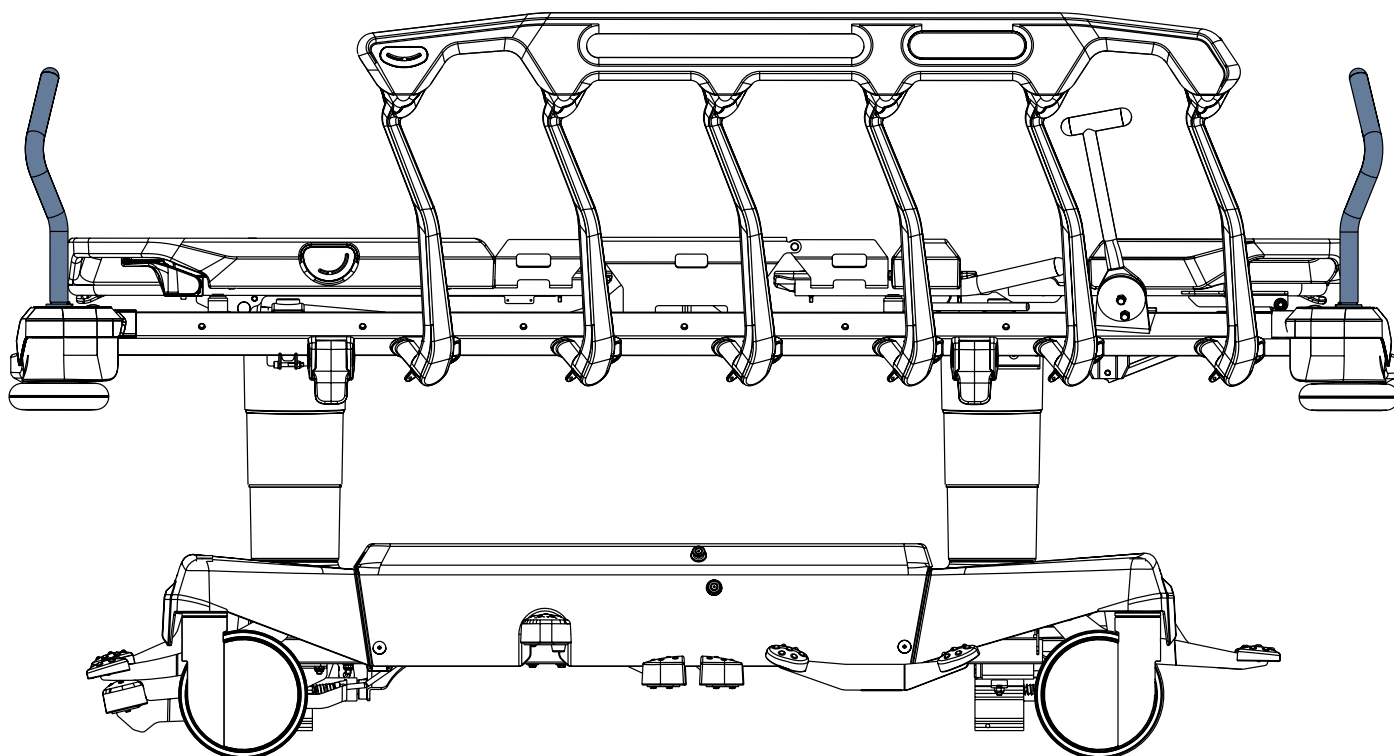


Fig. Fixed handles (at head end and foot end)

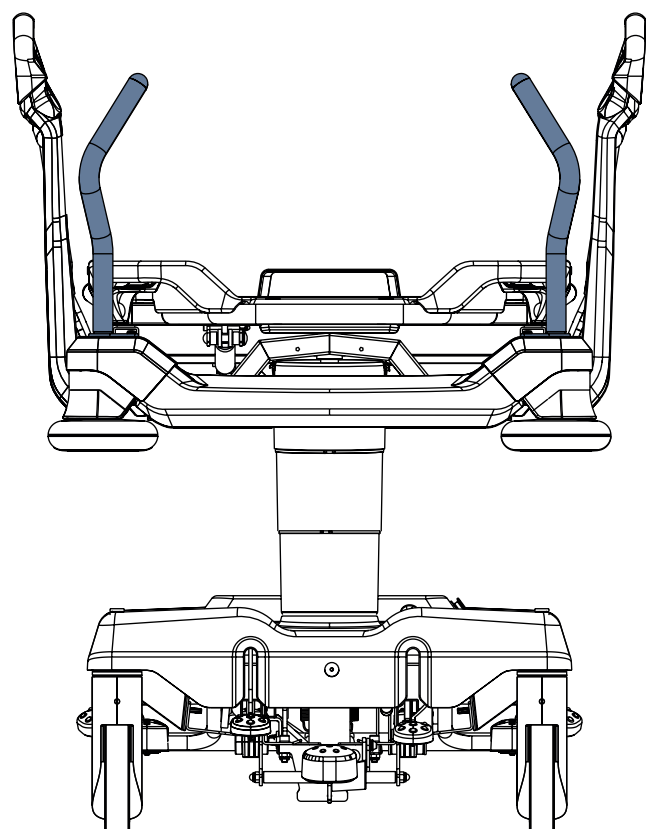


Fig. Fixed handles (at head end)

19.10 Angle Indicators

Angle Indicators are situated on both sides of the Backrest or on both outer sides of siderails. Backrest angle indicators are intended for an approximate Backrest angle measurement. Angle indicators on siderails are intended for an approximate measurement of Trendelenburg tilt and Reverse-Trendelenburg tilt.

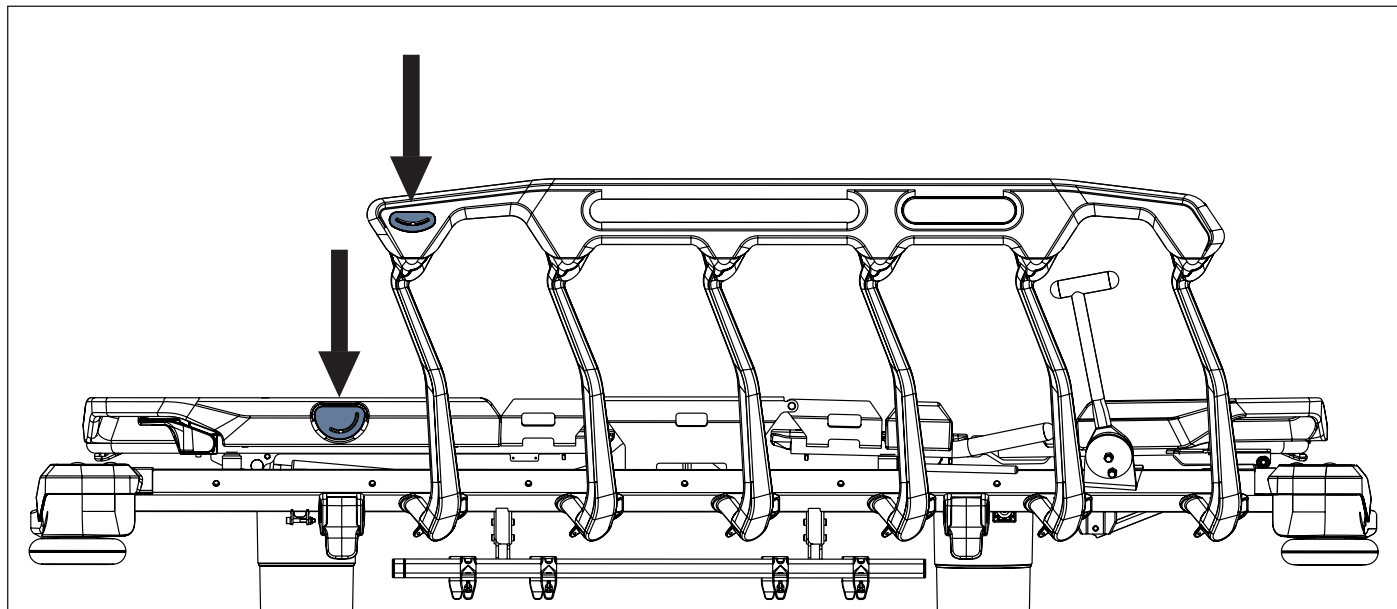


Fig. Angle Indicators

19.11 Mobi-Lift Handles

Mobi-Lift® handle is intended as support handle when patient gets up.

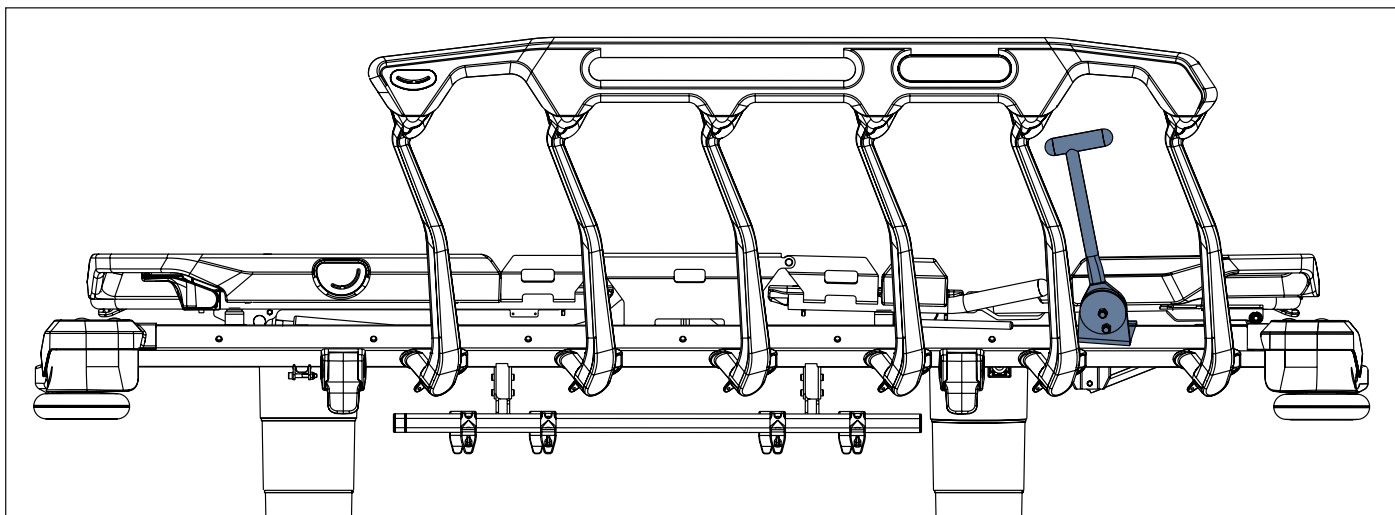


Fig. Mobi-Lift Handle

To fold Mobi-Lift Handle down:

- ▶ Lift the Mobi-Lift Handle up to unlock it.
- ▶ Fold the Mobi-Lift Handle down.

To lift Mobi-Lift Handle up:

- ▶ Lift the Mobi-Lift Handle up.
- ▶ Check if the Mobi-Lift Handle is locked in place.

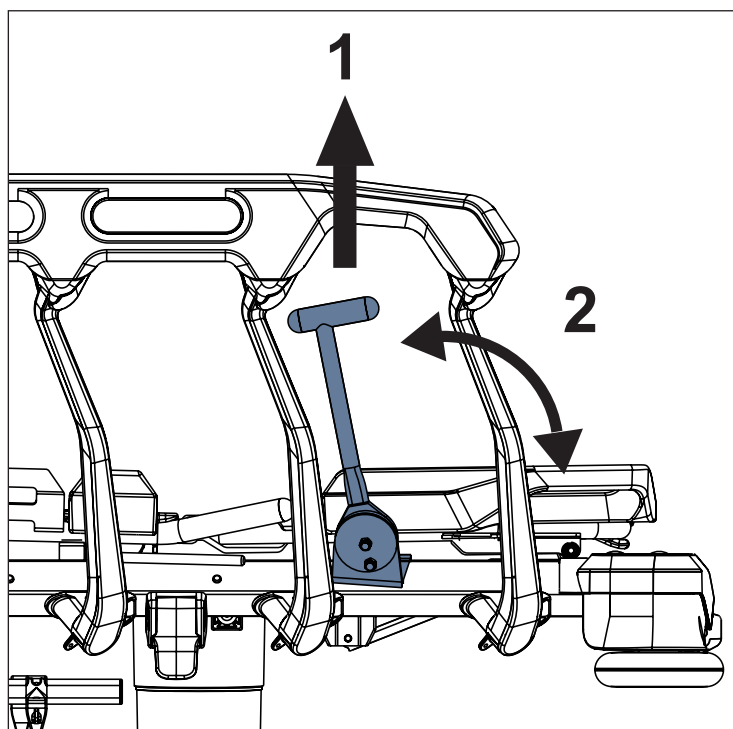


Fig. Mobi-Lift Handle Control

19.12 USB charger



WARNING!

Risk of injury due to incorrect use!

- ▶ Patient is allowed to use the USB charger only if hospital personnel had assessed that the patient's physical and psychological state is in accordance with use of it and only if the hospital personnel had trained the patient in accordance with the instructions for use!
Hospital personnel is responsible for meeting this requirement.



WARNING!

Risk of injury due to incorrect use!

- ▶ Ensure that accessory plugged in USB port is in pristine condition!
User of the stretcher is responsible for meeting this requirement.



WARNING!

Risk of injury due to incorrect use!

- ▶ Only use the USB charger when the Sprint 400 stretcher is connected into the mains!
User of the stretcher is responsible for meeting this requirement.



WARNING!

Risk of injury due to squeezed cable!

- ▶ Ensure that cable of a plugged accessory is not squeezed by siderail or by parts of the mattress support platform!
User of the stretcher is responsible for meeting this requirement.



CAUTION!

Risk of material damage due to incorrect use!

- ▶ Ensure that plugged accessory is prevented from falling down!
User of the stretcher is responsible for meeting this requirement.



CAUTION!

Risk of material damage due to incorrect use!

- ▶ Do not plug any heating element into the USB port!
User of the stretcher is responsible for meeting this requirement.



CAUTION!

Risk of material damage due to incorrect use!

- ▶ Protect USB port from water!
- ▶ Ensure the USB port will not be harmed during cleaning!
- ▶ Do not perform steam cleaning in proximity to the USB port!

USB chargers are intended for charging mobile phones and tablets.
Two USB chargers are located under the backrest on both stretcher sides.
USB-C port is located on the stretcher right side.
USB-A port is located on the stretcher left side.

NOTE: Maximum electric current for the device connected to the USB charger is 2 A.

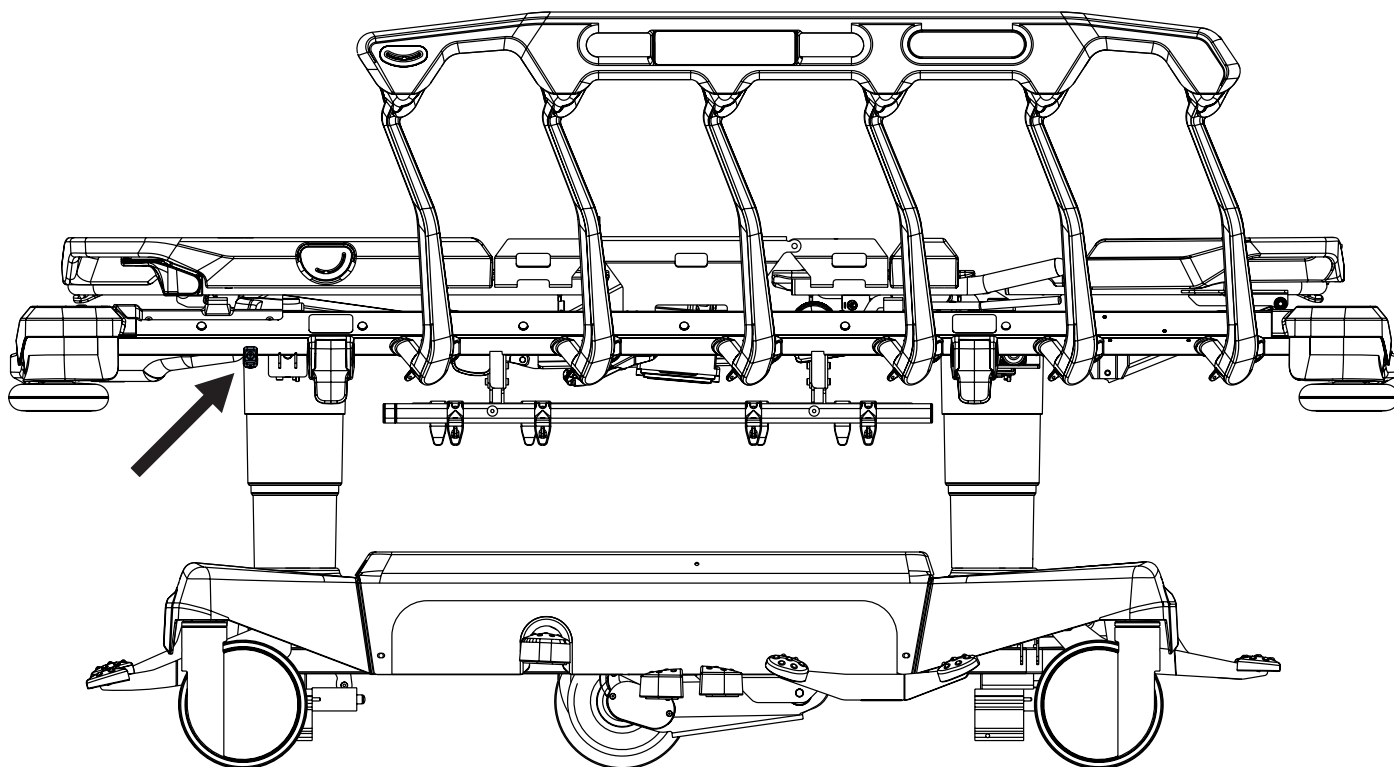


Fig. USB charger with USB-C port under the backrest of the stretcher

19.13 i-Drive Power

It is possible to equip the stretcher with the i-Drive Power wheel. The i-Drive Power helps hospital staff to drive the stretcher during patient transport with minimal manpower.

The i-Drive Power wheel is located in the center of the stretcher under the undercarriage. i-Drive Power is equipped with its own accumulator and charger and it is not dependent on the stretcher functions so, if discharged you can still use the stretcher functions. The stretcher is equipped with one i-Drive Power Control Panel. i-Drive Power wheel is oriented in straight direction of the stretcher.

19.13.1 Safety instruction for i-Drive Power

- ▶ Follow the instructions carefully.
- ▶ Ensure that the stretcher is operated exclusively by qualified staff.
- ▶ Make sure the siderails are raised up during the transport.
- ▶ Never use Fast forward button when descending. The Fast forward button is recommended for use when ascending as it is more efficient.
- ▶ Special precaution need to be considered when reversing. Always keep distance from the stretcher and never use reverse button when descending or ascending.
- ▶ Do not use Free Drive to transport on a slope over 1 degree unless adequate personnel are available to manage safe stretcher transport.
- ▶ The driving down the slope that exceeds 6 degrees will require adequate contribution of a manpower.
- ▶ Never leave the stretcher with an activated i-Drive Power system without supervision of the trained staff.
- ▶ Always use the regular mechanical brake system to brake and stabilize the stretcher.
- ▶ Pay increased attention when driving the stretcher using i-Drive Power. Be aware of people and objects in close proximity and avoid collision with them by careful driving, especially by appropriate speed control.
- ▶ Make sure the stretcher is unplugged and stretcher brakes are released before using i-Drive Power.
- ▶ Push the emergency stop drive button if immediate movement interruption is needed (e.g. to avoid collision with other persons or objects).
- ▶ Retract the i-Drive Power wheel to the undercarriage when parking. This will prevent misuse when unbraking and braking the stretcher.
- ▶ Switch off the i-Drive Power accumulator prior to long-term storage or transport.
- ▶ Press or lift a pedal to leave all Brake pedals and Drive pedals unpressed in their middle position to retract the i-Drive Power Wheel in the case of i-Drive Power system failure. This will enable moving the stretcher to a safe area manually without using i-Drive Power.
- ▶ Retract the i-Drive Power wheel to the undercarriage every time you intend to move the stretcher sideways.
- ▶ Pay attention to the LED accumulator status indicator and plan your drive using the i-Drive Power accordingly. Insufficient accumulator capacity can cause unexpected complications and risks during the drive.
- ▶ Always plug the stretcher in when you finish your drive in order to recharge the accumulator and keep your stretcher ready to go using the i-Drive Power.
- ▶ The i-Drive Power accumulator must be replaced every 2 years to maintain proper functions of the i-Drive Power.

19.13.2 Specifications of Use



WARNING!

Risk of injury due to careless driving!

- ▶ Always drive safely and carefully.
- ▶ Observe the path for any obstacles and avoid collisions.
- ▶ Ensure there are no people in your way.
- ▶ Manipulate with the stretcher carefully not to drive over any staff or patients.



CAUTION!

Maximal clearance underneath the stretcher equipped with i-Drive Power Wheel is 2,5 cm!

- ▶ Observe the path for any obstacles and avoid collisions.

Intended use:

- ▶ stretcher transport (with or without patient) by the hospital staff

Unintended use:

- ▶ riding the stretcher
- ▶ other usage than described in instructions for use
- ▶ by other person than the trained staff

NOTE Each stretcher can transport only single patient at a time and cannot be used to transport other items (except stretcher accessories in secured position).

NOTE For information concerning uses other than those outlined in the “Specifications of Use” section above, please contact LINET®.

19.13.3 Manipulation



CAUTION!

Damage to i-Drive Power Main Control Panel cable due to wrong cable placement!

- Ensure that the main control panel connecting cable is placed correctly.



CAUTION!

Material damage due to incorrect use!

- Do not hang anything on the main control panel and its cable!

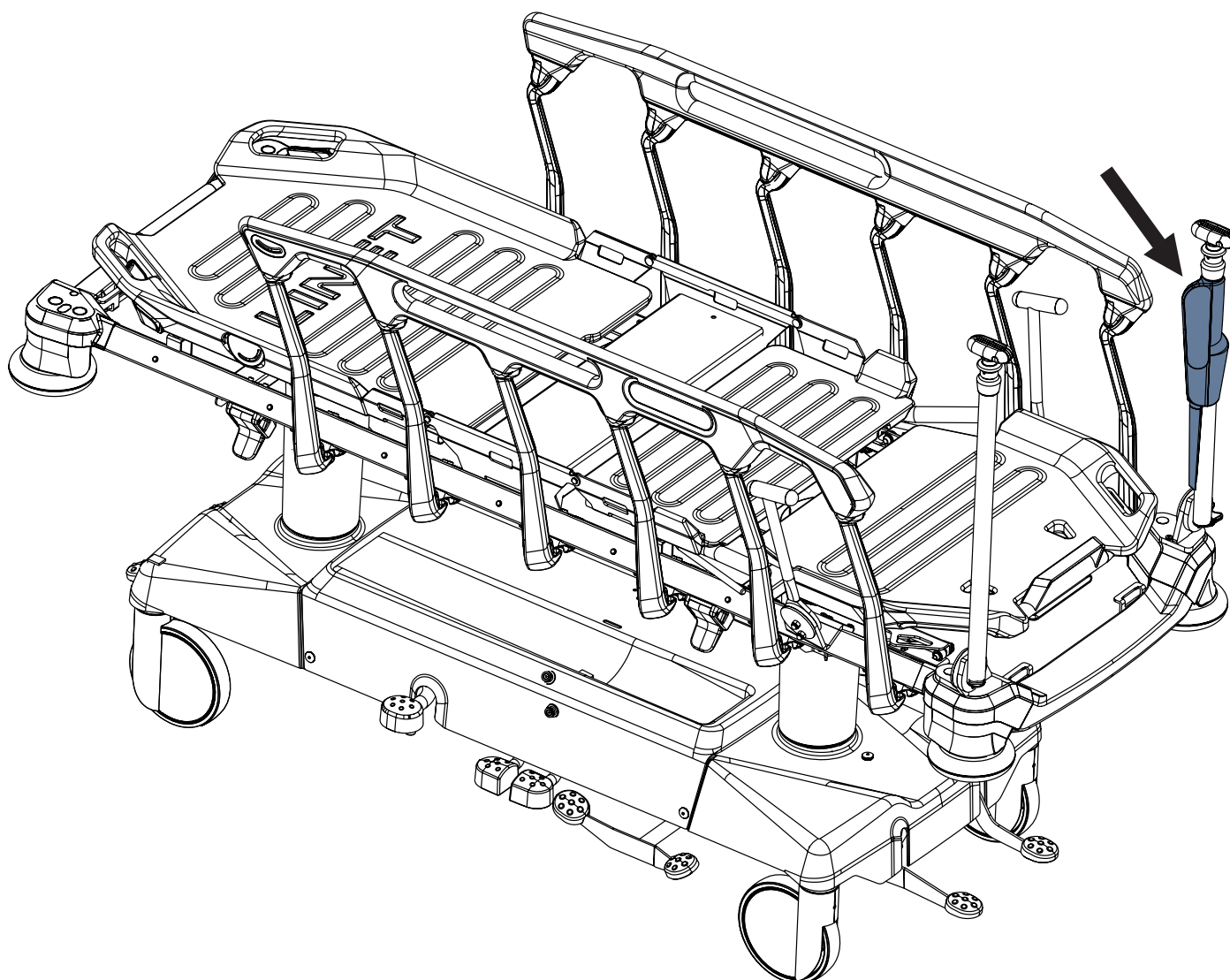


Fig. Position of the i-Drive Power Control Panel on the IV&Drive foldable infusion stand at stretcher foot end

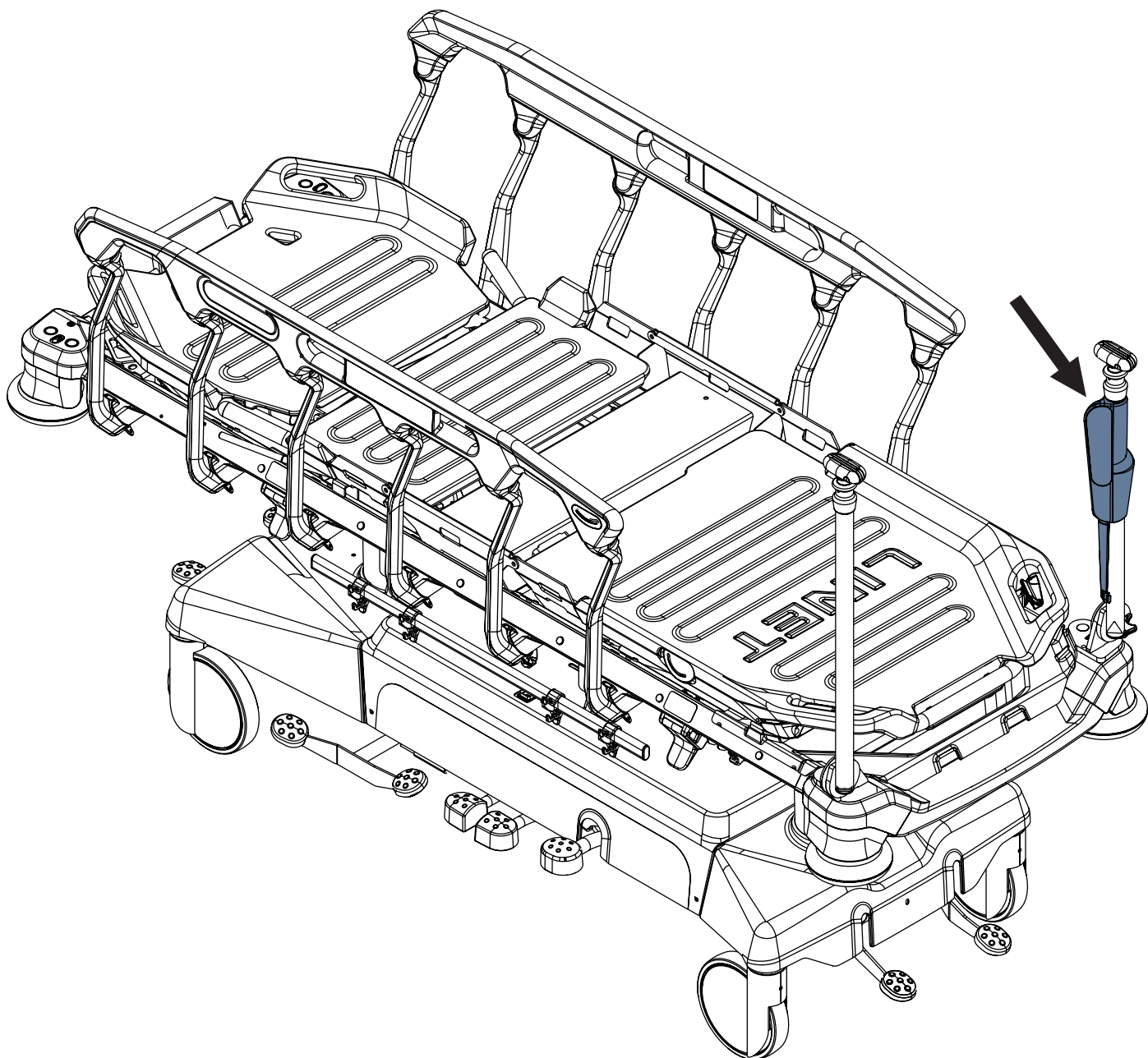


Fig. Position of the i-Drive Power Control Panel on the IV&Drive foldable infusion stand at stretcher head end

i-Drive Power Control Panel

The i-Drive Power Control Panel is enhanced with a touch sensor. Your hand must always be in contact with the i-Drive Power Control Panel to use the functions. If released, the i-Drive Power will stop. Buttons on the i-Drive Power Control Panel works only if the i-Drive Power Control Panel with the IV&Drive are in vertical position. The i-Drive Power Control Panel can be located on the IV&Drive foldable infusion stand or on the Foldable Driving Handle.

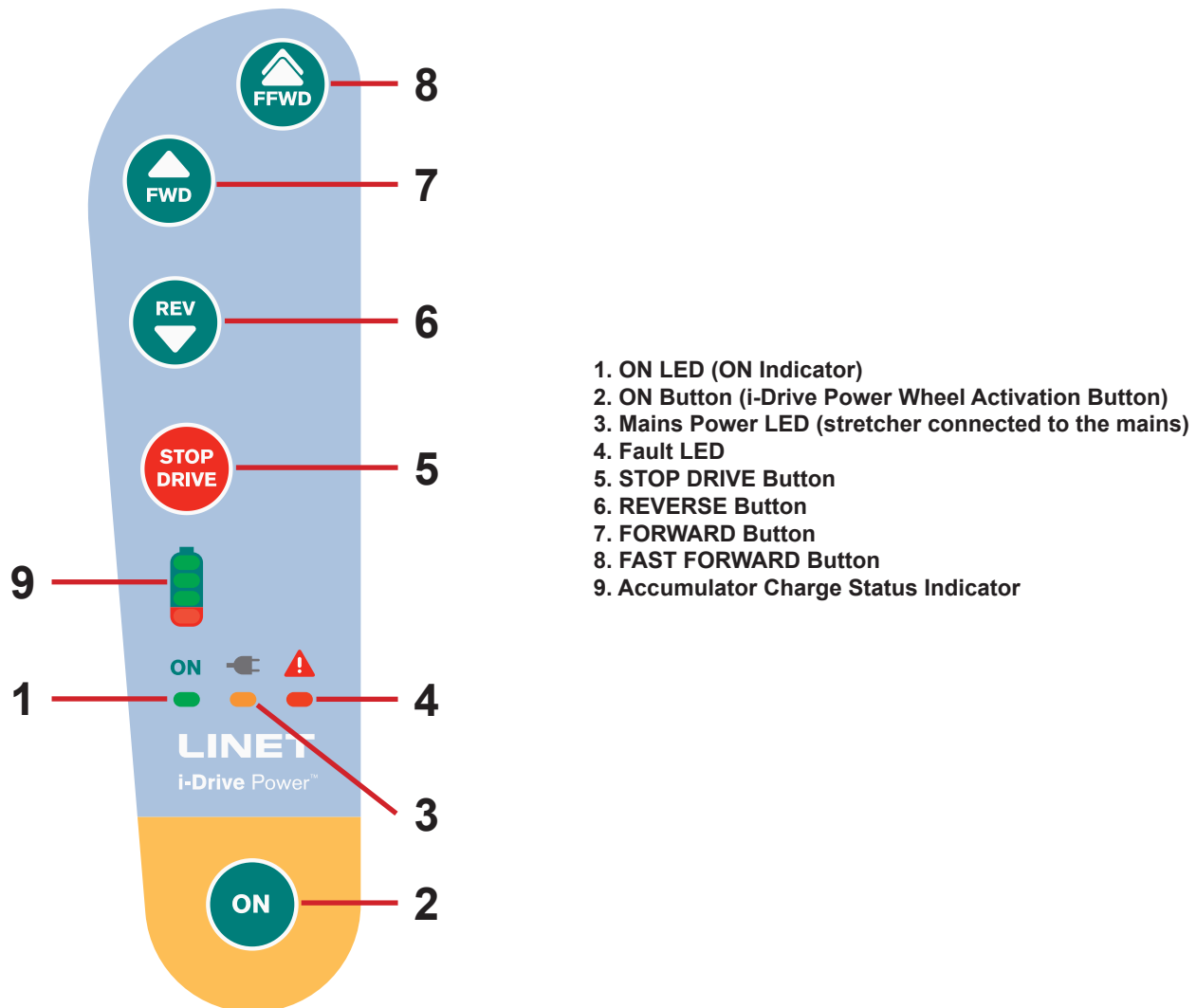


Fig. i-Drive Power Control Panel

19.13.4 i-Drive Power Activation/Deactivation

To prepare the i-Drive Power wheel for use:

- ▶ Press the mains switch located on the undercarriage cover to the ON position.
 - ▶ Press green Drive pedal to the lower position.
- The braked i-Drive Power Wheel will lower.

To activate the i-Drive Power:

- ▶ Press i-Drive Power Wheel Activation Button  located on the Main Control Panel. The green ON LED  will be flashing. Place your hand on the Safety Sense touch sensor to use the i-Drive Power.

To retract the i-Drive Power Wheel:

- ▶ Press or lift a pedal to leave all Brake pedals and Drive pedals unpressed in their neutral middle position or brake the Sprint 400.

To deactivate the i-Drive Power:

- ▶ It is recommended to fold the Foldable infusion stand with i-Drive Power Control Panel down.
- ▶ Press the mains switch located on the undercarriage cover to the OFF position.

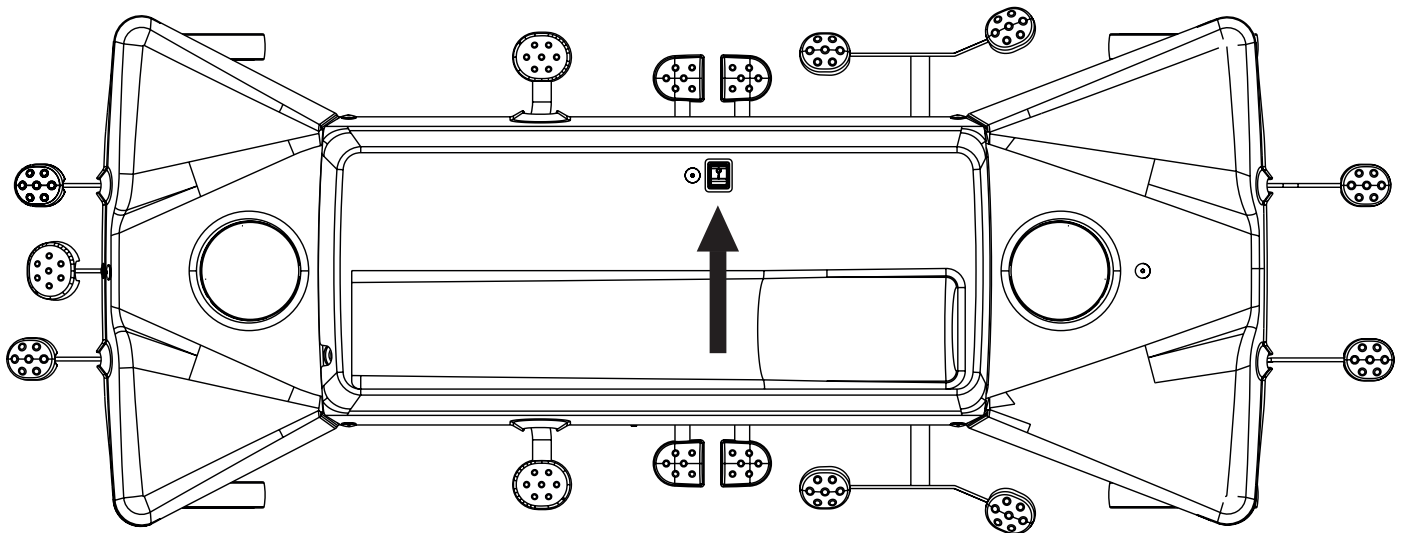


Fig. Position of the i-Drive Power Mains Switch

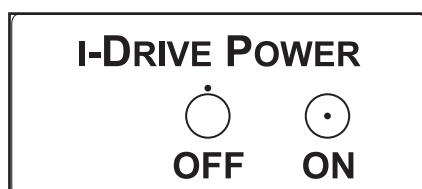


Fig. i-Drive Power Mains Switch with Label

19.13.5 Powered Drive



CAUTION!

Damage to property due to incorrect transport and involuntary movement!

- ▶ Prior to transport, ensure that the Sprint 400 with i-Drive Power is disconnected from the mains.
- ▶ Hang the mains cable on the appropriate hook on the Sprint 400 with i-Drive Power during transport.
- ▶ Ensure that the castors are locked prior to putting into service, removing from service and maintenance of the i-Drive Power system.
- ▶ Ensure that the castors are locked when the stretcher is occupied.

Instructions for Powered Drive:

1. Check, if the mains switch of the i-Drive Power is activated (i-Drive Power Mains Switch is in ON position).
2. Press green Drive pedal to the lower position. The braked i-Drive Power wheel will lower.
3. Press the button  on the i-Drive Power Main Control Panel. The ON LED  will be flashing.
4. Place your hand on the Safety Sense touch sensor.
5. Push the button  or button  or button . Your hand must be placed on the Safety Sense sensor to use the i-Drive Power. If released, the i-Drive Power will stop.
6. The i-Drive Power motor is immediately stopped after pressing the red button  in emergency.
7. i-Drive Power control system is automatically deactivated if no i-Drive Power function is used for 3 minutes. This is signaled by the green LED  which is extinguished after 3 minutes.

NOTE i-Drive Power is not designed for ascending or descending a slope greater than 6° or longer than 20 m. The support of personnel is needed when ascending or descending with a full SWL.

NOTE When i-Drive Power wheel is lowered, it is not possible to move the stretcher forward. Press or lift a pedal to leave all Brake pedals and Drive pedals unpressed in their neutral middle position or brake the stretcher to retract the i-Drive Power Wheel and then move the stretcher to any direction required.

19.13.6 Braking

1. Press and hold the button  to brake slowly (Press the button  to brake when reversing).
- or-
1. Release your hand from the touch sensor area and i-Drive Power will brake automatically.

NOTE Always brake the stretcher by using the castor control lever when the transport is finished or interrupted. The i-Drive Power electromagnetic brake is not designed to permanently brake the stretcher.

NOTE When descending, it is possible to actively brake using the opposite direction button to slow.

19.13.7 Emergency Braking

1. Press and hold the button  to brake immediately.

NOTE In a crisis situation (e.g. acceleration when driving down a steep slope) i-Drive Power dual braking prevents acceleration and slows down stretcher movement. However, it is not guaranteed the stretcher will stop by itself without personnel support (using button  and castor control lever).

19.13.8 Free Drive

The i-Drive Power motor is equipped with free drive, which is active after pressing the forwards ( or ) or backwards () buttons (until user holds the touch sensor area).

Free Drive is deactivated and the brake is activated when the direction of motion is changed. This is feature for lowering the risks when going to a slope.

19.13.9 Batteries



WARNING!

It is not possible to charge the batteries of the i-Drive Power system when the i-Drive Power Mains Switch is in OFF position!

Batteries charge status:

1. While this indicator is flashing, the batteries are critically discharged. (LED1)
2. 50% (LED2)
3. 75% (LED3)
4. 100% - the batteries are charged (LED4)

To charge the batteries:

- ▶ Connect the mains cable of the Sprint 400 with i-Drive Power to mains power.
- ▶ i-Drive Power system will be charged (with the accumulator discharged, the charging may take up to 9 hours).

NOTE Charge status values are just informational.

Life of the batteries is reduced when the batteries are allowed to discharge completely.

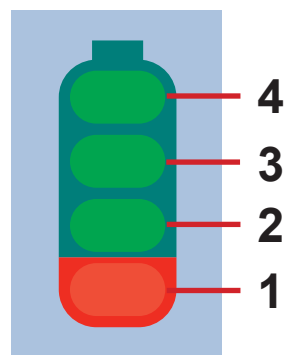


Fig. Accumulator Charge Status

19.13.10 Fault Signalization

The system is protected against failure states, by stopping and braking the drive system, and respective signalization. The fault indicator flashing briefly and the accumulator indicator shows the fault state. Some defects are cleared automatically (e.g.: drive overheating). When drive or electronics is overheated, an short acoustic signal occurs before the drive is blocked.

Error	LED1	LED2	LED3	LED4
Drive overheated	OFF	OFF	OFF	ON
Electronics overheated	OFF	OFF	ON	OFF
Internal system error	OFF	ON	OFF	ON
Closing of the Field-effect transistor is penetrated	OFF	ON	ON	OFF
Control circuit overheated	OFF	ON	ON	ON
Control circuit error	ON	OFF	OFF	OFF
Activation button stuck	ON	OFF	OFF	ON
Active button after start	ON	OFF	ON	ON

19.13.11 Light Indicators

Indicator	Meaning
ON Indicator ▶ Constantly lit ▶ Flashing	Hand is on touch sensor; drive wheel is ready for use. Hand is not on touch sensor; i-Drive Power is not ready for use.
Fault Indicator ▶ Constantly lit ▶ Flashing	i-Drive Power cannot be activated. System is faulty (indicated on the Fault LED). -or- i-Drive Power control unit heat protection is activated.

19.13.12 Technical Specifications

Parameter	Value
i-Drive Power wheel diameter	21 cm
Max. fast forward speed (flat ground, loaded)	4,43 km/h (±15%)
Max. forward speed (flat ground, loaded)	2,16 km/h (±15%)
Max. reverse speed (flat ground, loaded)	2,16 km/h (±15%)
Max. angle of ascent	6°

19.13.13 Electrical specification

Parameter	Value
Batteries Voltage	12 V DC, Capacity: 9 Ah
Fuse Version 230 V Version 127 V Version 120 V Version 110 V Version 100 V	2 x T1,6A L 250V 2 x T3,15A L 250V 2 x T3,15A L 250V 2 x T3,15A L 250V 2 x T3,15A L 250V

19.13.14 i-Drive Power Maintenance

Periodical maintenance of the i-Drive Power must be done by qualified service technician or authorized service organization at least once a year. To continue maintenance please see chapter Maintenance.

Service technician must check the following:

- ▶ accumulator status and eventual replacement of the accumulator (after maximum of three years of duty)
- ▶ shock absorber function
- ▶ i-Drive Power wheel – replace if necessary
- ▶ lifting mechanism – grease if necessary
- ▶ cables, control elements – replace if necessary
- ▶ i-Drive Power function

20 Mattress



CAUTION!

Incompatibility with stretcher due to incorrect mattress dimensions!

► In the case of other mattresses check maximum approved mattress dimensions (Technical Specification chapter) and its specific shape.

Sprint 400 stretcher is designed for special passive mattresses from LINET portfolio.

The manufacturer recommends the use of the following mattresses on the Sprint 400 stretcher:

Sprint 400 PASSIVE MATTRESSES

- Sprint 200/400/600 Standard
- Sprint 200/400/600 Comfort
- Sprint 200/400/600 Advanced

SPRINT 400 REACTIVE MATTRESSES

- Sprint 200/400/600 Reactive

These mattresses removed from the Sprint 400 mattress support platform are not designed for patient transport.

20.1 Anti-slip coating



CAUTION!

This anti-slip coating is not intended to prevent mattress movement when subjected to large forces so care must be taken during patient ingress & egress or with agitated patients.



CAUTION!

Placing any loose material such as sheets between the Sprint 400 mattress support platform and the bottom surface of the mattress will reduce the effect of the anti-slip coating and extra care must be taken during patient ingress & egress or with agitated patients.

The bottom surface of the Sprint 400 mattress has an 'anti-slip' coating. This is intended to help prevent the mattress moving around on the Sprint 400 mattress support platform during patient transport, mattress support platform articulation or whilst the patient is moving around.

20.2 Installation of Passive Mattress

The Sprint 400 passive mattresses are shaped to fit the Mattress Support Platform during stretcher positioning.

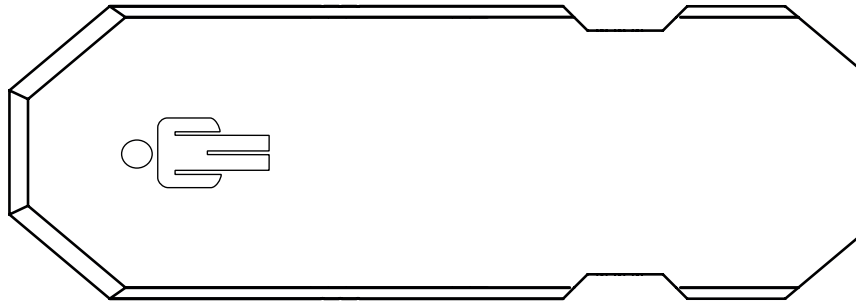


Fig. Passive Mattress (Sprint 400 with 4-part mattress support platform)

20.2.1 Strap with side release buckles

The Sprint 400 passive mattresses can be equipped with strap with buckles to fix mattress on the Mattress Support Platform.

To fix mattress on the Mattress Support Platform:

- ▶ Run both parts of the strap through the two holes in the Calfrest cover.
- ▶ Lock the side release buckle by connecting its male and female part together.

To remove mattress from the Mattress Support Platform:

- ▶ Release the buckle by pressing it from both sides and by disconnecting its male and female part.
- ▶ Pull both parts of the strap out of the two holes in the Calfrest cover.
- ▶ Remove mattress from the Mattress Support Platform.

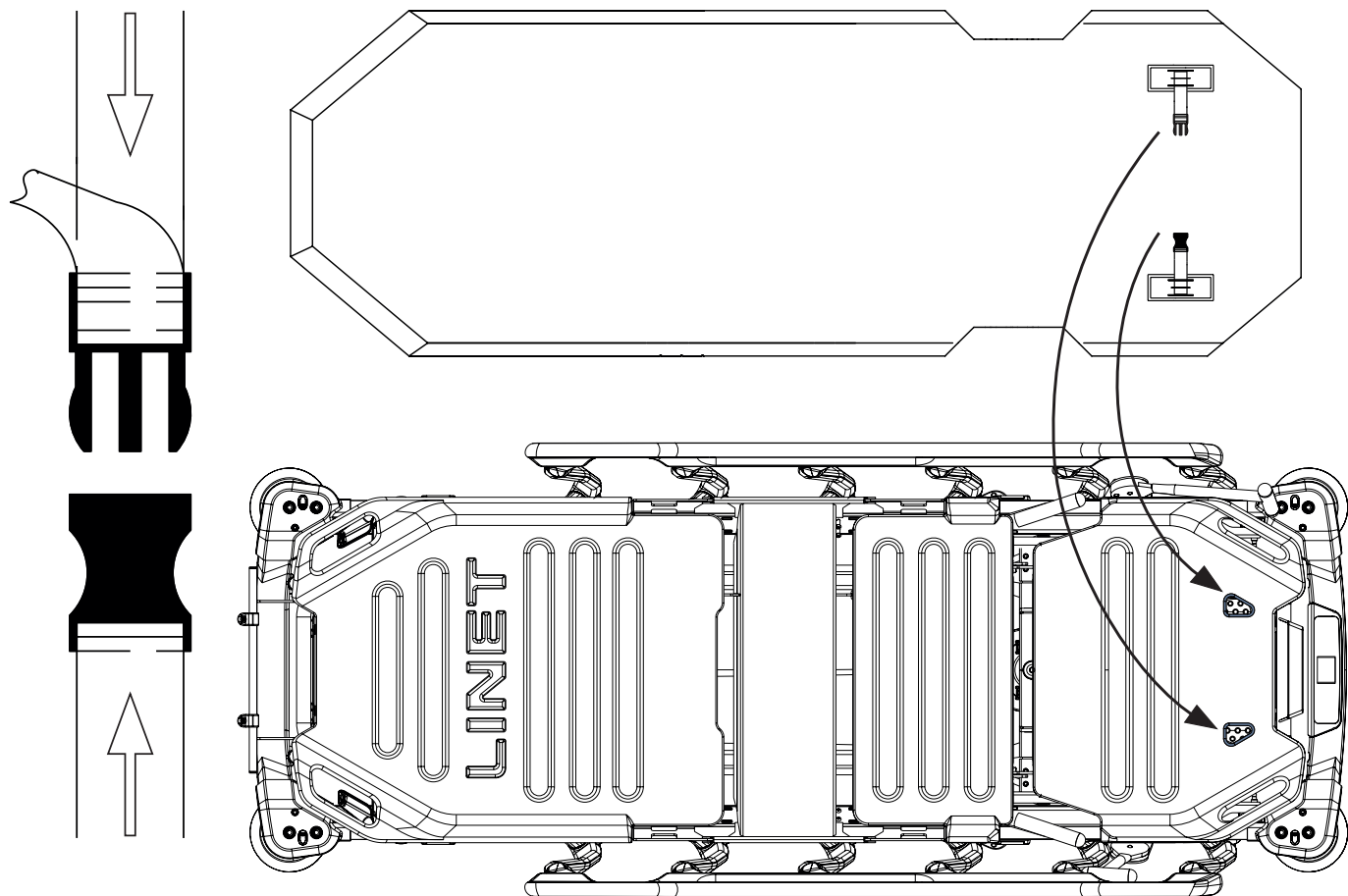


Fig. Fixation of mattress with straps on the Sprint 400 with 4-part mattress support platform

20.3 Mattress Specifications

20.3.1 Sprint 400 with Standard Mattress Support Platform

Specification	Sprint 200/400/600 Standard	Sprint 200/400/600 Standard	Sprint 200/400/600 Comfort
Length	203 cm	203 cm	203 cm
Width	76 cm	76 cm	76 cm
Height	10 cm	13 cm	13 cm
Maximum Mattress Weight	6,4 kg / 14 lb	7 kg / 15 lb	9 kg / 20 lb
Foam Type	one sided	one sided	one sided
Number of Layers	1	1	2
Used Materials (Foam)	Polyurethan	Polyurethan	Polyurethan + Viscoelastic
Thermo-sensitive Top Layer	✗	✗	✗
Cover	Endurance	Endurance	Endurance
Straps (Foot End)	✓	✓	✓
Vapour Permeability (Cover)	✓	✓	✓
Antislip Feature (Base Cover)	✗	✓	✓
Fluid Ingress Protection (Protect Cover)	✗	✗	✗
Stretchable Material (Cover)	4 way stretch	4 way stretch	4 way stretch
Zipper with Zipper Protection	360°	360°	360°
Patient Weight Limit	200 kg / 441 lb	320 kg / 705 lb	280 kg / 617 lb
Mattress Heel End Cut	✗	✗	✓
X-ray Sleeve in Mattress Cover (optional)	✗	✗	Dimensions: 140 cm x 76 cm

Specification	Sprint 200/400/600 Advanced	Sprint 200/400/600 Reactive
Length	203 cm	203 cm
Width	76 cm	76 cm
Height	13 cm	13 cm
Maximum Mattress Weight	9,5 kg / 21 lb	10 kg / 22 lb
Foam Type	one sided	one sided
Number of Layers	4	3
Used Materials (Foam)	Polyurethan + Viscoelastic	Polyurethan + Viscoelastic
Thermo-sensitive Top Layer	✗	✗
Cover	Endurance	Endurance
Straps (Foot End)	✓	✓
Vapour Permeability (Cover)	✓	✓
Antislip Feature (Base Cover)	✓	✓
Fluid Ingress Protection (Protect Cover)	✓	✓
Stretchable Material (Cover)	4 way stretch	4 way stretch
Zipper with Zipper Protection	360°	360°
Patient Weight Limit	320 kg / 705 lb	280 kg / 617 lb
Mattress Heel End Cut	✓	✓
X-ray Sleeve in Mattress Cover (optional)	Dimensions: 140 cm x 76 cm	Dimensions: 140 cm x 76 cm

20.4 Cleaning of Passive Mattress



CAUTION!

Incorrect cleaning/disinfection can damage the mattress!

- ▶ Do not use pressure or steam cleaners.
- ▶ Follow the instructions and observe the dosages recommended by the manufacturer.
- ▶ Ensure that disinfectants are selected and applied by qualified hygiene experts only.
- ▶ The surface of the mattress should not be exposed to liquids for a long time.

20.4.1 General Guidance

For safe and gentle cleaning:

- ▶ Do not use any strong acids or alkalines, (optimum pH range 6 – 8. Do not exceed pH of 9).
- ▶ Only use detergents that are suitable for cleaning medical equipment.
- ▶ Do not use abrasive powders, steel wool, or other material and cleaning agents that might damage the mattress. Do not scrub mattress surface.
- ▶ Never use any corrosive or caustic detergents.
- ▶ Never use detergents that deposit calcium carbonate.
- ▶ Never use detergents with solvents that might affect the structure and consistency of the plastics (benzene, toluene, acetone etc.).
- ▶ Use only hospital-approved cleaners and observe local directives concerning infection control.
- ▶ Always rinse with water after cleaning and dry thoroughly before use.
- ▶ Observe local directives concerning infection control.

Mattress parts to be cleaned	Recommended Cleaning Agents (General Cleaning
Top Cover, Bottom Cover, Protect Cover	Standard hospital detergents, Alcohol or Quaternary Ammonium based disinfectants, Chlorine based disinfectants containing up to 0,1% Chlorine, followed by rinsing with water and drying thoroughly before use.
	Decontamination: Blood spills/C-diff. etc Chlorine based disinfectants containing up to 0,1% Chlorine. Dwell time on surface at 0,1% of 5 minutes, followed by rinsing with water and drying thoroughly before use.
Mattress Core	Do not clean!

Due to the variety of laundry equipment, chemicals and conditions in use, customers should satisfy themselves through pretesting. It is essential that cover be thoroughly rinsed and dried after all cleaning procedures and before storage or reuse. Wet or damp PU surfaces are more prone to mechanical damage than when dry.

As stated above, after application of a suitable cleaner, the surface must be rinsed with water and dried before use. (Even if the cleaner instructions say that this is not required). This prevents a build-up of chemicals on the mattress surface which could be reactivated during use and affect biocompatibility.

NOTE Continued use of high concentration, chlorine-based disinfectants may significantly reduce the performance and the working life of a coated material.

NOTE If disinfecting is not required, cleaning with soap and water should be enough to remove dirt stains.

NOTE Cleaning and disinfecting products based on solvent, bleach, abrasives or very high (over 70%) alcohol concentrations can damage this product.

Type of Cleaning	Parts to be cleaned
Routine Cleaning and Disinfection	external of mattress cover
Full Cleaning and Disinfection	external of mattress cover

20.4.2 Routine Cleaning and Disinfection

Cleaning the mattress:

- ▶ Check mattress cover top for any signs of damage or for liquid ingress.
- ▶ Replace or repair and completely disinfect mattress cover top if damaged. Also check if the mattress core is not contaminated. In case of core contamination, do not use the mattress and dispose the core ecologically.
- ▶ Leave mattress cover on mattress.
- ▶ Clean with water with cleaning detergent.
- ▶ Rinse mattress with cold water.
- ▶ Let mattress air dry or wipe dry.
- ▶ Wipe mattress with disinfectant and rinse mattress with cold water.
- ▶ Let mattress dry or wipe dry.

20.4.3 Complete Cleaning and Disinfection

Cleaning Top/Bottom Cover:

Use standard hospital detergents, Alcohol based cleaners or Quaternary Ammonium based disinfectants. Suitable Chlorine based cleaners can be used at a concentration of 0,05%. Stronger concentrations of chlorine can be used if required, (up to 0,1%), with a maximum dwell time of five minutes followed by rinsing with water and drying thoroughly before use.

After application of a suitable cleaner, the surface should be rinsed with water and dried before use. (Even if the cleaner instructions say that this is not required). This prevents a build up of chemicals on the mattress surface that could reactivate during use and affect biocompatibility.

Cleaning Protect Cover:

Use standard hospital detergents, Alcohol based cleaners or Quaternary Ammonium based disinfectants. Suitable Chlorine based cleaners can be used at a concentration of 0,05%. Stronger concentrations of chlorine can be used if required, (up to 0,1%), with a maximum dwell time of five minutes followed by rinsing with water and drying thoroughly before use.

After application of a suitable cleaner, the surface should be rinsed with water and dried before use. (Even if the cleaner instructions say that this is not required). This prevents a build up of chemicals under the Top/Bottom Cover that could reactivate during use and affect biocompatibility.

Cleaning the mattress:

- ▶ Check mattress cover top and base for any signs of damage.
- ▶ Replace or repair and completely disinfect mattress cover top and base if damaged. Also check if the mattress core is not contaminated. In case of core contamination, do not use the mattress and dispose the core ecologically.
- ▶ Leave mattress cover on mattress.
- ▶ Clean with water with cleaning detergent.
- ▶ Rinse mattress with cold water.
- ▶ Let mattress air dry or wipe dry.
- ▶ Wipe mattress with disinfectant.
- ▶ Rinse mattress with cold water.
- ▶ Let mattress air dry or wipe dry.

Machine washing of the top/base mattress covers:

- ▶ Remove cover.
- ▶ If machine washing mattress top/base covers, the temperature should be raised during the wash cycle, to 71°C/160° F, for 3 - 10 minutes, using hospital approved detergents and rinsing agents.
- ▶ Dry cover in tumble dryer at low temperature.

NOTE Maximum wash temperature 75°C (but it decreases lifetime period of the product).

20.4.4 Mattress Core

The entire core of the mattress does not require any major cleaning. The core does not need disinfection. Once a month it is recommended to ventilate the mattress core (remove the mattress cover and leave the mattress core on ventilated area for 12 -24 hours). The mattress core cannot be washed by water or by disinfection.

20.5 X-ray Sleeve in Mattress Cover (optional)



WARNING!

Risk of x-ray image misinterpretation due to its deterioration!

- ▶ Ensure the body part to be x-rayed is accessible via the X-ray Sleeve! See the following pictures.
- ▶ Ensure the distance between a lying patient and an inserted compatible x-ray cassette is not increased unnecessarily. Ensure the x-ray cassette is not placed outside the X-ray Sleeve on the mattress cover or on the mattress foam!
- ▶ Ensure there are no added x-ray contrast materials between patient and x-ray cassette. There are no x-ray contrast materials in the place of X-ray Sleeve.
- ▶ Take x-ray images when the stretcher is braked and no part of the stretcher is forced to move or the mattress is not forced to move considerably!



WARNING!

Risk of worsening patient's spinal injury!

- ▶ The use of the X-ray Sleeve must be preceded by an evaluation of the patient's condition by the clinical staff. This evaluation must take into account all risks resulting from the physical and mental state of the patient.



CAUTION!

Risk of damaging a compatible x-ray cassette!

- ▶ Do not leave any x-ray cassette in the X-ray Sleeve if x-ray examination should not be performed immediately.



CAUTION!

Risk of damaging the X-ray Sleeve due to incorrect cleaning!

- ▶ Check regularly whether the X-ray Sleeve is dirty due to liquids flowing inwards.
- ▶ Unfasten the toggles for better access during cleaning the X-ray Sleeve.
- ▶ If it is not feasible to clean the X-ray Sleeve correctly, the whole mattress cover should be replaced. It is forbidden to wash the mattress cover equipped with the X-ray Sleeve in the washing machine!

Mattress Cover of the Sprint 200/400/600 Comfort, Sprint 200/400/600 Advanced and Sprint 200/400/600 Reactive mattresses could be equipped with X-ray Sleeve.

The X-ray Sleeve is accessible from the left side and from the right side of the compatible Sprint 400 mattresses.

The X-ray Sleeve cannot be removed from the compatible mattress cover.

The X-ray Sleeve is intended for a cassette needed for x-ray examinations of patients while they are lying on a mattress.

It is not possible to perform x-ray examinations via X-ray Sleeve in the extent of the whole mattress support platform.

To take x-ray image of a patient in the Sprint 400 emergency stretcher:

- ▶ Patient can be in supine position or in position with lifted Backrest which is intended for chest x-ray in accordance with patient conditions. Maximum compatible x-ray cassette dimensions depend on whether patient is sitting on the mattress or is in the supine position.
- ▶ Find the zip pull on the mattress side in the place of patient's knees. Zip pulls are available on both mattress sides at mattress foot end at the beginning of zip. Unzip the mattress cover side where you want to insert a compatible x-ray cassette.
- ▶ Encourage the patient to roll sideways or second caregiver is needed to assist with rolling the patient sideways for inserting the x-ray cassette into the X-ray Sleeve.
- ▶ Unfasten the toggle if more space is needed for inserting a compatible x-ray cassette into the X-ray Sleeve.
- ▶ Insert the compatible x-ray cassette into the upper X-ray Sleeve section for the chest x-ray or into the lower X-ray Sleeve section for the pelvis x-ray.
- ▶ Perform the x-ray examination.

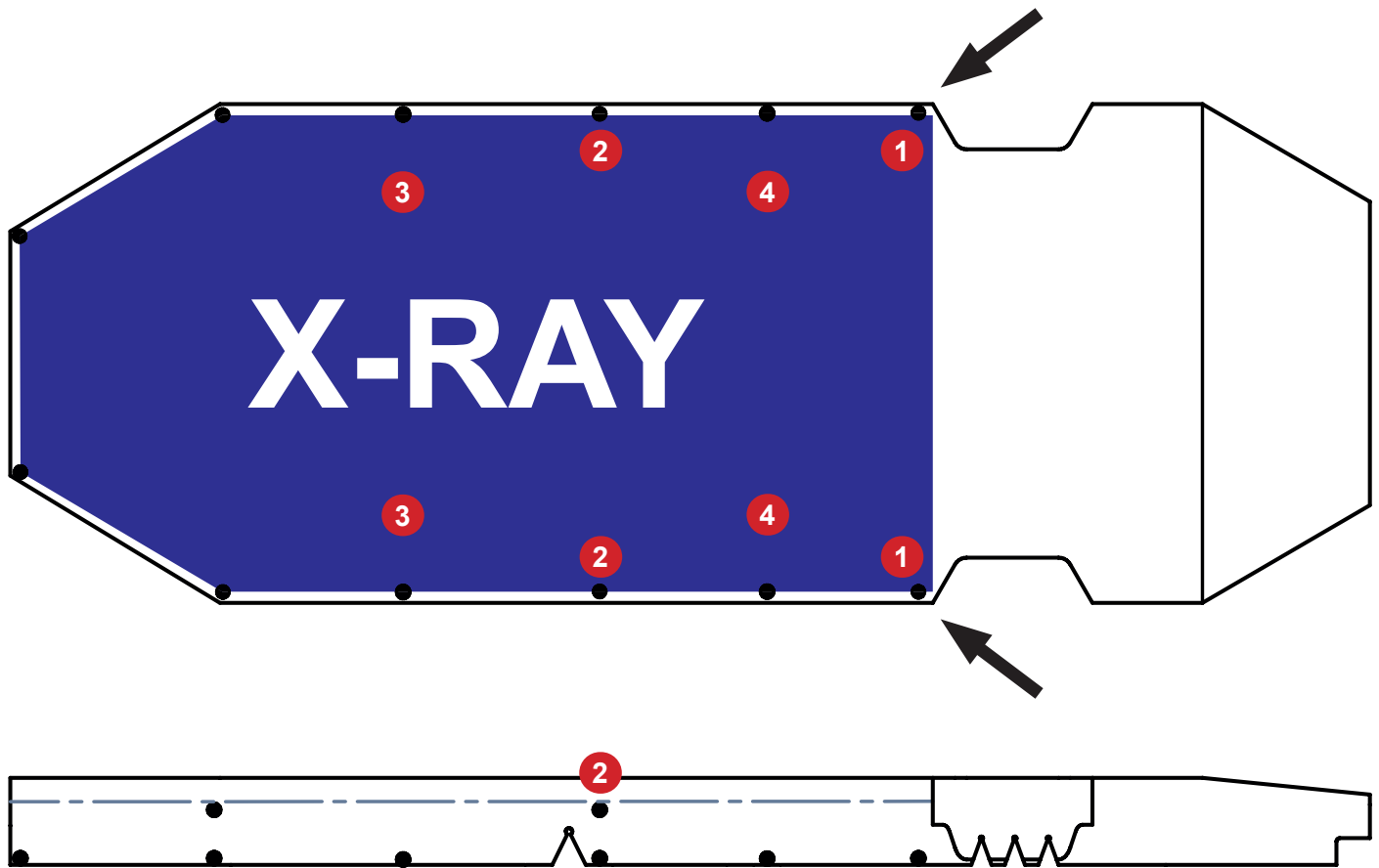


Fig. Description of the X-ray Sleeve for 4-part Mattress Support Platform

1. Zip pull (unzip to open the X-ray Sleeve)
2. Toggle of the X-ray Sleeve (unfasten it for inserting a wider x-ray cassette)
3. Upper X-ray Sleeve section
4. Lower X-ray Sleeve section

21 Accessories


WARNING!

Risk of injury due to incompatible accessories!

- Use exclusively original accessories from the manufacturer.
- The manufacturer is not responsible for the use of unapproved accessories.


WARNING!

Risk of injury due to damaged accessories!

- Use exclusively accessories in perfect condition.


WARNING!

Risk of injury or material damage due to incorrect use!

- Compatible accessories manufactured by different manufacturers have their own instructions for use. It is necessary to read instructions for use of a compatible accessory with instructions for use of the compatible LINET product to respect especially technical parameters, warning notifications, cleaning and maintenance instructions of LINET products and their compatible accessories!


WARNING!

Risk of injury or material damage when adjusting the stretcher!

- Ensure that there are no installed accessories that may collide with moving parts of the stretcher.
- Extra care must be taken to avoid collisions of the accessories with stretcher parts and with the other accessories during stretcher positioning.
- Extra care must be taken to avoid collisions of the accessories installed on the stretcher and things in the vicinity of the stretcher.


WARNING!

Risk of injury due to an involuntarily pressed button on a control element in the collapsible siderails!

- Never place any accessories on the collapsible siderails where keyboards of the Siderail Control Panels or the Patient Control Panels are located!

Compatible Accessories	Manufacturers and Identification Numbers	Accessory Mass	SWL	Compatibility
Infusion Stand	MARO MADER: 4MAS6016306	1,16 kg	10 kg (5 kg per hook)	
Telescopic Infusion Stand	PROVITA MEDICAL: 4PV348405X00	1,87 kg	20 kg (5 kg per hook)	
Chart Holder	LINET: 102400000000	0,33 kg	15 kg	
Monitor Shelf	LINET: 11026300A0009	7,61 kg		
Paper Roll Holder	LINET: 11013700A0001	2,1 kg	10 kg	For version without scales only!
Storage Box	LINET: 1106000080003	1 kg	10 kg	
Oxygen Bottle Holder for oxygen bottle with maximum dimensions 80 cm x 14 cm and minimum dimensions 33 cm x 12 cm	LINET: 11026300A0016	3,9 kg	15 kg	Only one of the two should be placed on the stretcher!
Oxygen Bottle Holder for oxygen bottle with maximum dimensions 80 cm x 12 cm and minimum dimensions 33 cm x 10 cm	LINET: 11026300A0015	3,4 kg	15 kg	
Foot Supports	LINET: 11013800A0000	3,9 kg	20 kg	
Head Support	LINET: 11013900A0000	4,8 kg	15 kg	

21.1 Infusion Stand



WARNING!

Risk of injury due to incorrect placement of an infusion pump!

- Ensure the infusion pump on the Infusion stand will not collide with any movable parts of the Sprint 400 (especially Backrest) or with the patient!



WARNING!

Risk of injury and risk of material damage due to incorrect use!

- Do not use the infusion stand as driving/pushing device during the stretcher transport.

Infusion Stand is intended for carrying IV bags or baskets for intravenous solutions. It can be located in bushings for accessories at a stretcher corner. Maximum load of one hook is 6 kg.

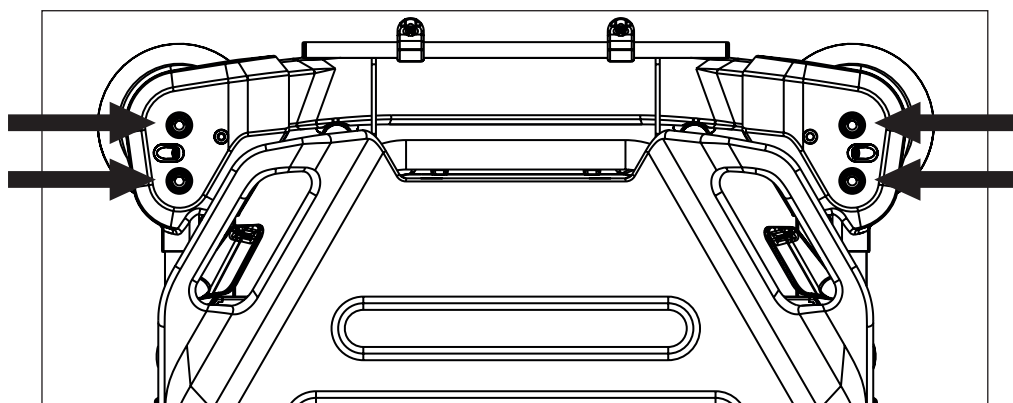


Fig. Positions for Infusion Stand

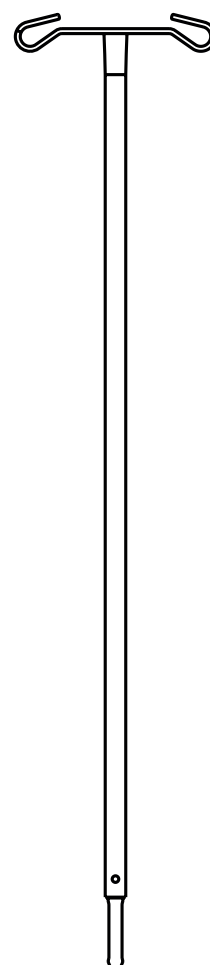


Fig. Infusion stand (at head end and foot end corners)

21.2 Telescopic Infusion Stand



CAUTION!

Risk of material damage due to incorrect placement of an infusion pump!

- Place an infusion pump carefully on the telescopic part of the Telescopic Infusion Stand in order to prevent the telescopic part from being damaged!



WARNING!

Risk of injury due to incorrect placement of an infusion pump!

- Ensure the infusion pump on the Infusion stand will not collide with any movable parts of the Sprint 400 (especially Backrest) or with the patient!



WARNING!

Risk of injury and risk of material damage due to incorrect use!

- Do not use the infusion stand as driving/pushing device during the stretcher transport.

Telescopic Infusion Stand is intended for carrying IV bags or baskets for intravenous solutions. It can be located in bushings for accessories at a stretcher corner. Maximum load of the Telescopic Infusion Stand is 20 kg.

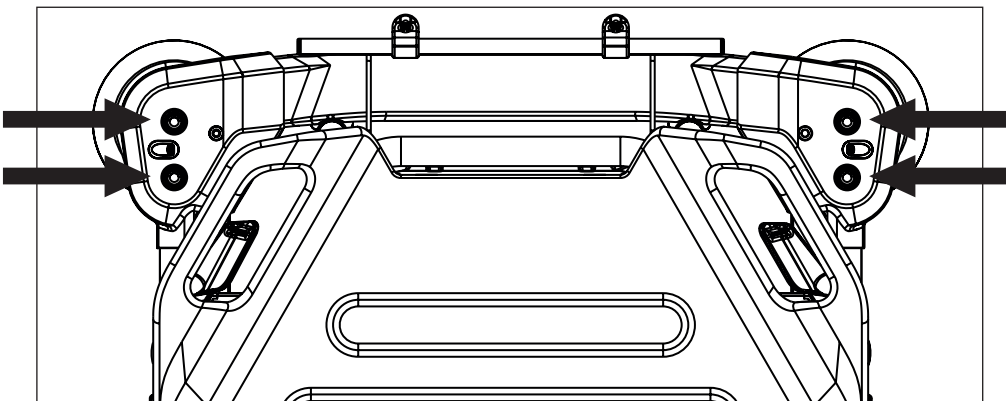


Fig. Positions for Telescopic Infusion Stand

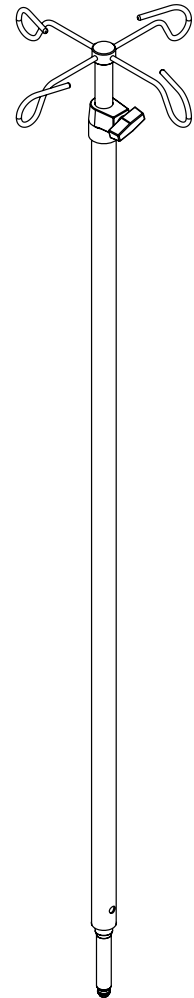


Fig. Telescopic Infusion stand (at head end and foot end corners)

To adjust height of the Telescopic Infusion Stand:

- Release a manual locking screw on the upper part of the Telescopic Infusion Stand.
- Set position of the telescopic part.
- Fix the telescopic part by the manual locking screw.

21.3 Chart Holder



WARNING!

Risk of injury due to an involuntarily pressed button on a Patient Control Panel in the collapsible siderails!

► Never place the Chart Holder on the collapsible siderails where keyboards of the Siderail Control Panels or the Patient Control Panels are located!

Chart Holder is intended for placing charts, which are registering the development of health condition of the patient.
Chart Holder is located on a siderail.

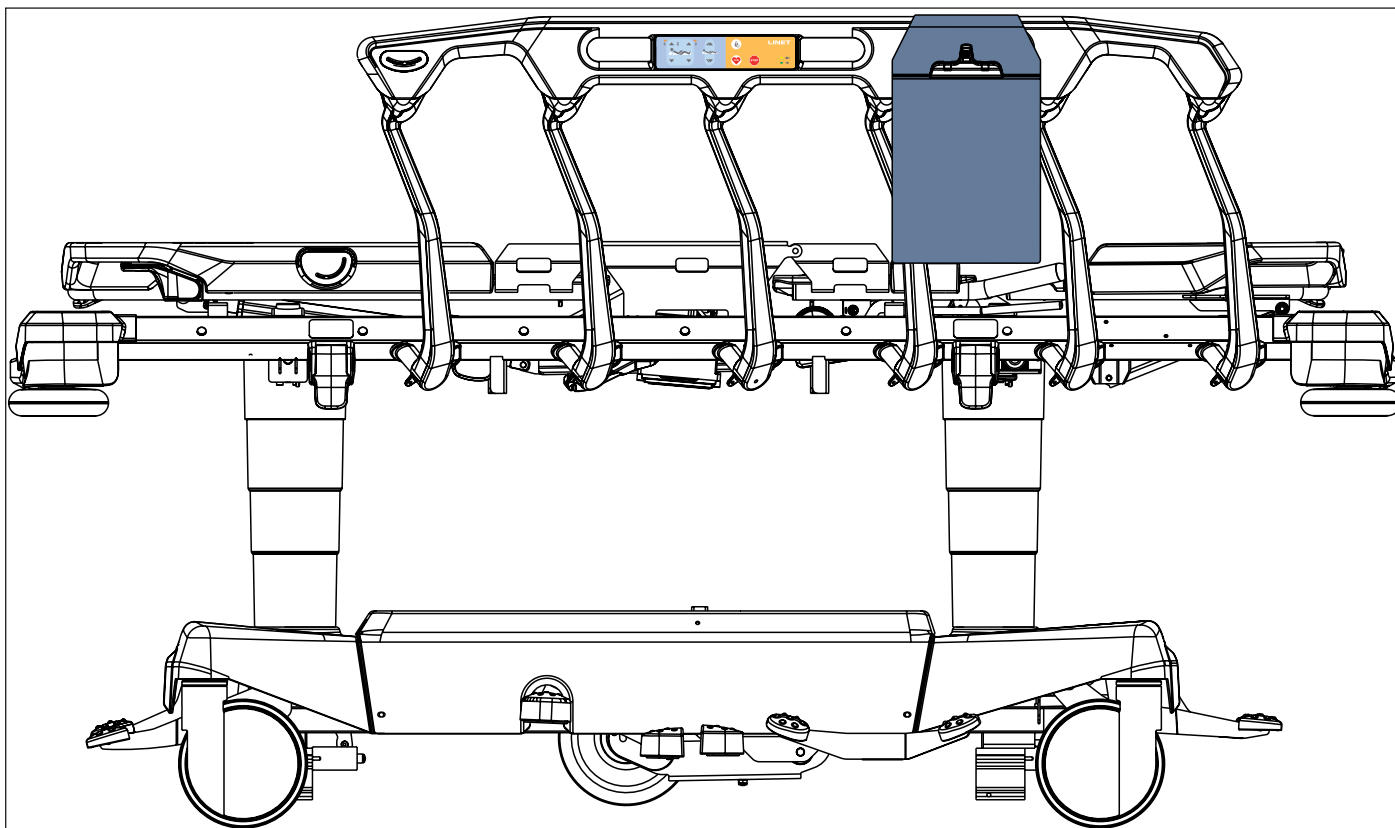


Fig. Position for Chart Holder

21.4 Monitor Shelf

Monitor shelf is intended for carrying a monitor when the monitor shelf is folded towards the stretcher (4). When the monitor shelf is folded away from the stretcher (3) it serves for writing. When the monitor shelf is folded down (2) it serves as a foot board. Monitor shelf is equipped with straps to fix a monitor on the monitor shelf. Maximum load of the monitor shelf in position for carrying a monitor (4) and for writing (3) is 15 kg.

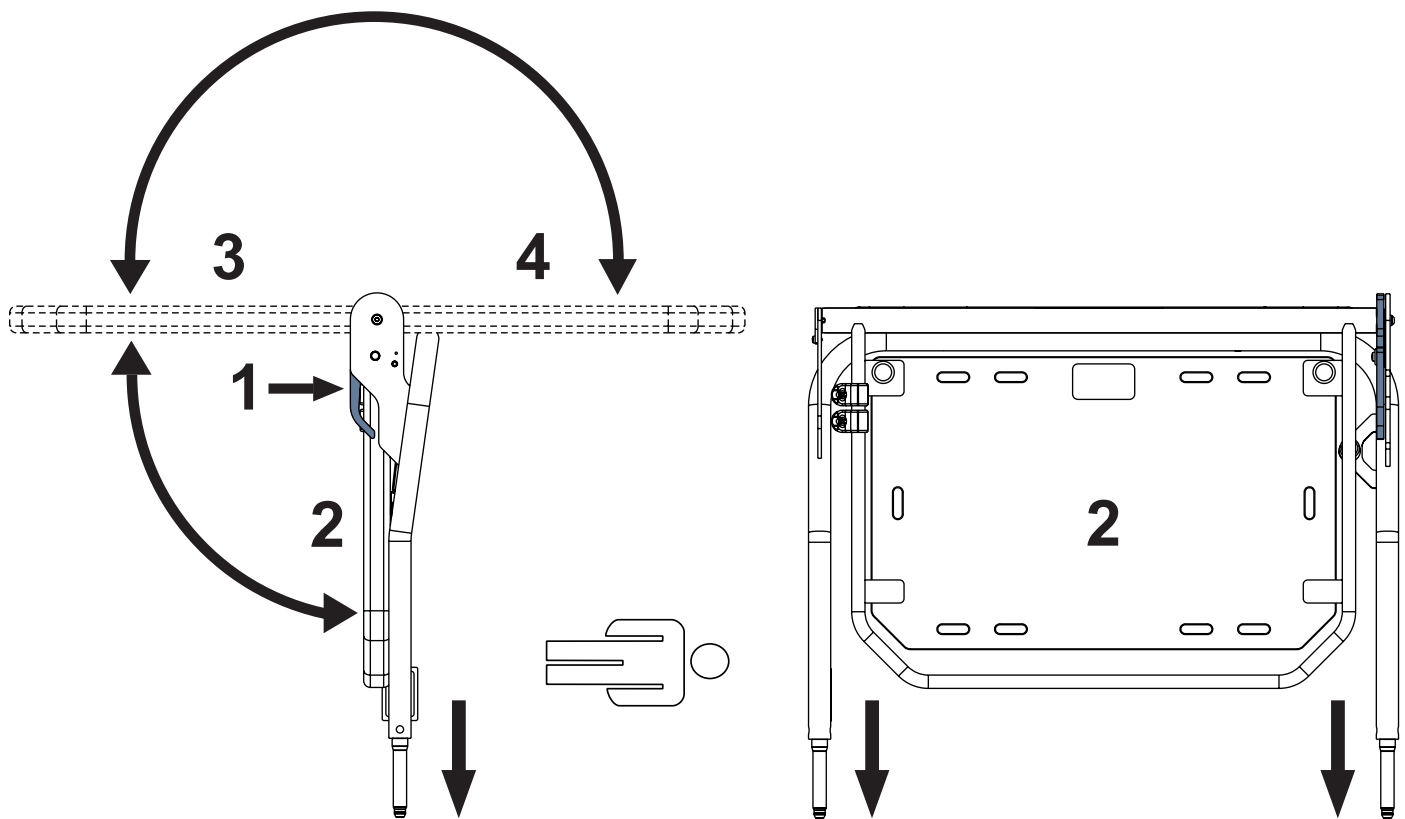


Fig. Monitor shelf at stretcher foot end

To change position of the board:

- ▶ Pull a control lever (1).
- ▶ Change position of the board.
- ▶ Release the control lever (1) in order to the control lever latches.
- ▶ Move the board up and down to ensure the board is fixed.

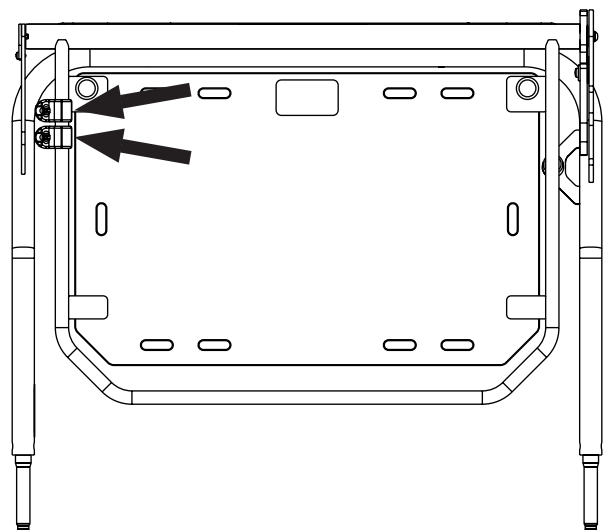


Fig. Instruction for placement of the monitor shelf to the head end and foot end corners

HOOKS

The position of hooks placed on the frame of Monitor Shelf can be changed to a more convenient position!

Respect maximum load of the Monitor Shelf when hanging things on the hooks!



21.5 Paper Roll Holder

Paper Roll Holder is intended for holding a paper bed sheet.

Paper Roll Holder can only be used with the specific Sprint 400 configuration enabling the correct placement of the Paper Roll Holder.

Paper Roll Holder is not compatible with Sprint 400 with scales.

Paper Roll Holder must be located at foot end of Sprint 400.

On the both stretcher ends, the paper bed sheet must be fixed under the mattress.

Maximum width of the bed sheet roll is 61 cm.

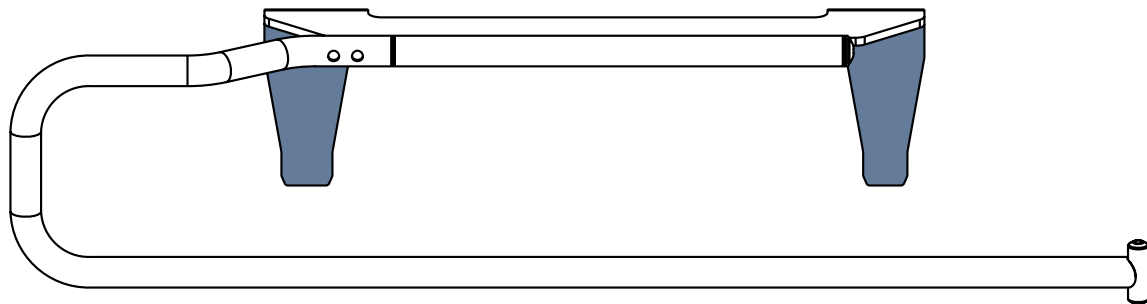


Fig. Paper Roll Holder with two nibs

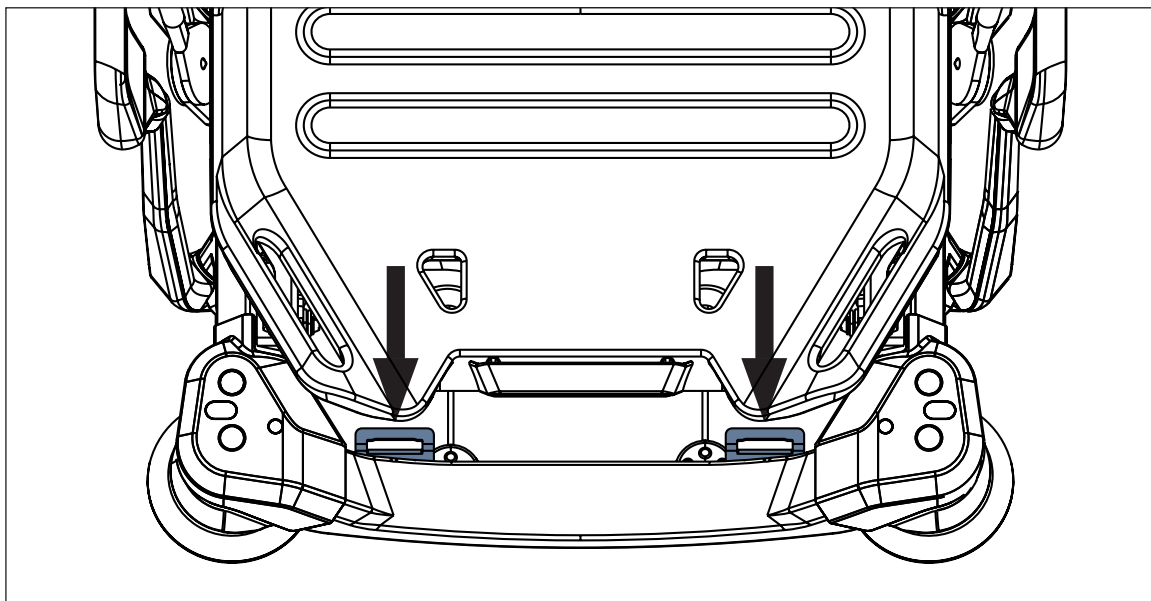


Fig. Two optional holders of the Paper Roll Holder

To insert the Paper Roll Holder to the optional holders at foot end of the Sprint 400:

- ▶ Insert both nibs of the Paper Roll Holder to both openings in the optional holders at foot end of the Sprint 400 carefully.
- ▶ Place the Paper Roll Holder on the foot end of the Sprint 400 carefully to prevent the Paper Roll Holder from falling on the Sprint 400.

To remove the Paper Roll Holder:

- ▶ Take the Paper Roll Holder out carefully to avoid lifting the stretcher foot end together with the Paper Roll Holder.

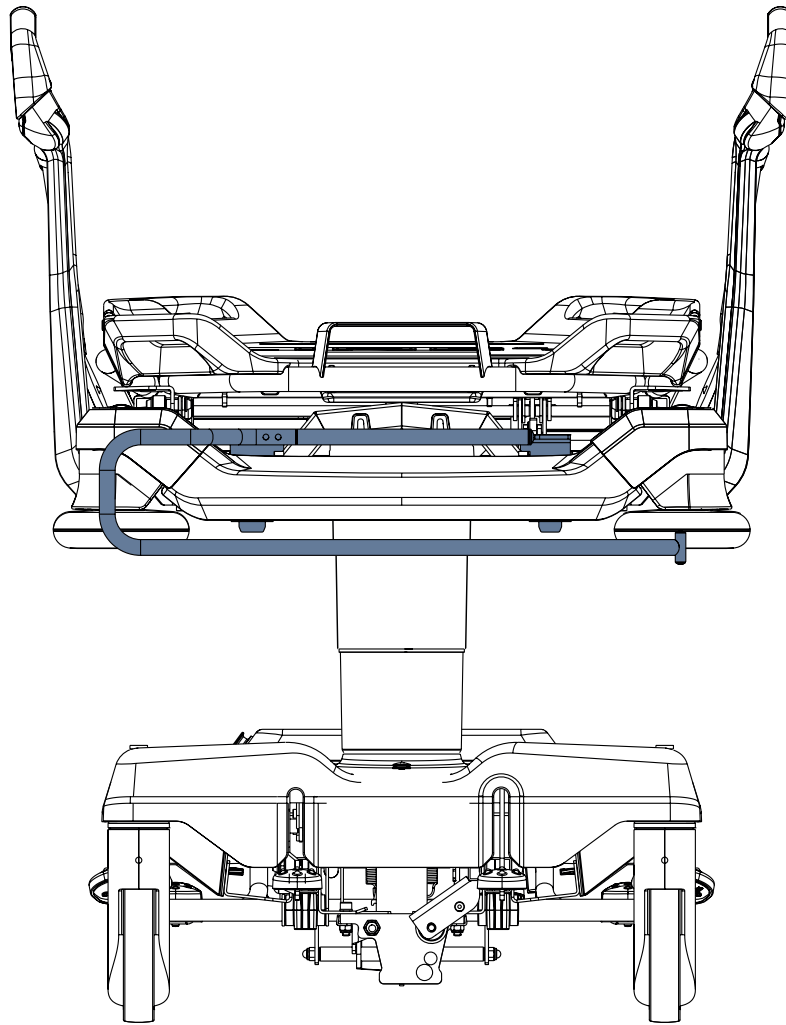
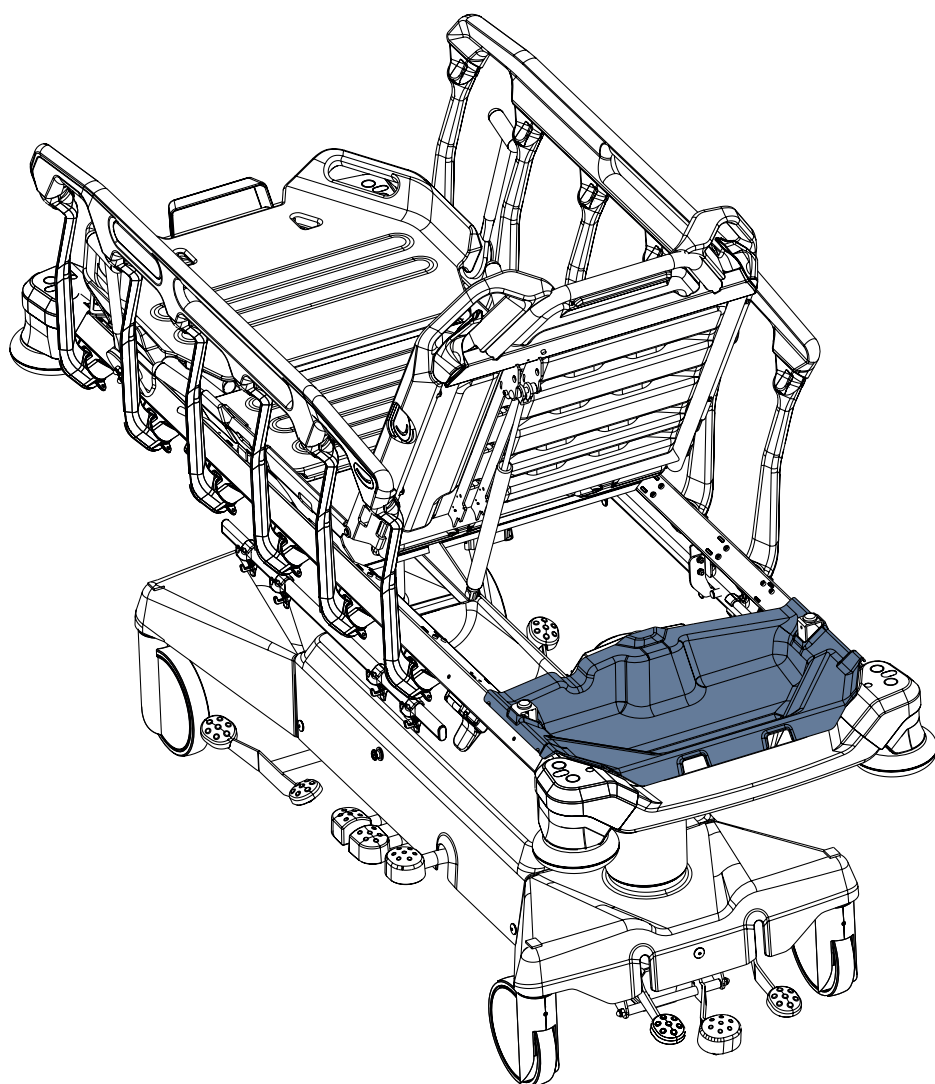


Fig. Paper Roll Holder at stretcher foot end

21.6 Storage Box

Storage Box is intended for patient's things.
Storage Box is located under the Backrest.
Maximum load of the Storage Box is 10 kg.



To clean the Storage Box:

- remove it from its place.

Fig. Storage Box under the backrest

21.7 Oxygen Bottle Holder



WARNING!

Risk of injury with Oxygen Bottle Holder due to incorrect use or due to careless driving!

- ▶ Ensure the Oxygen Bottle Holder is correctly fitted in correct position.
- ▶ It is necessary to place Oxygen Bottle Holder (with or without O2 bottle) before transport to secure transport position.
- ▶ Be aware of people or objects in close proximity when driving or manipulating the stretcher equipped with Oxygen Bottle Holder.
- ▶ Secure the oxygen bottles against falling or involuntary movement with rubber strap.
- ▶ Place the Oxygen Bottle Holder on the stretcher by following instructions.
- ▶ Ensure the oxygen bottle valve will not get damaged by careless or incorrect manipulation or placement.



CAUTION!

Oxygen Bottle Holder must be placed to the correct position on the left side at head end of the Sprint 400 stretcher during its installation and its removal!

Oxygen Bottle Holder is intended for transporting oxygen bottles with a weight of up to 15 kg and a volume of 5 litres. Oxygen Bottle Holder can only be used with the specific Sprint 400 configuration enabling the correct placement of the Oxygen Bottle Holder. Oxygen Bottle Holder with adapter is located at head end on the left.

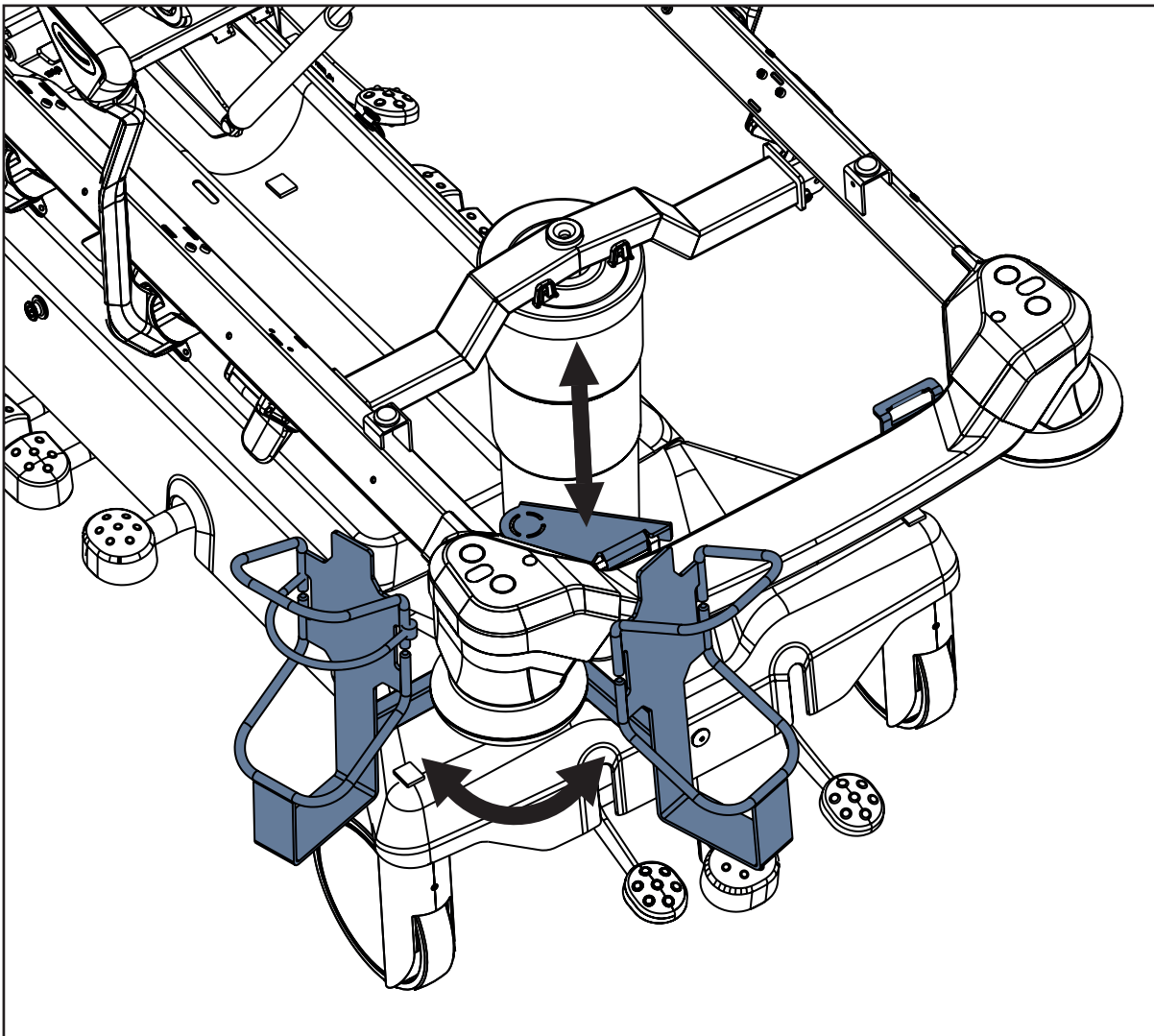


Fig. Two Positions of the Oxygen Bottle Holder at head end

To place the Oxygen Bottle Holder:

- ▶ Lift the Backrest.
- ▶ Place Oxygen Bottle Holder with adapter to designated position on the frame of Mattress Support Platform on the left side at head end.

To remove the Oxygen Bottle Holder:

- ▶ Lift the Backrest.
- ▶ Adjust the Oxygen Bottle Holder with adapter to designated position on the left side at head end.
- ▶ Lift the part of Oxygen Bottle Holder which is attached to the frame of Mattress Support Platform.
- ▶ Lift the rest of Oxygen Bottle Holder through the frame of Mattress Support Platform.

To adjust position of the Oxygen Bottle Holder:

- ▶ Move Oxygen Bottle Holder to intended position.

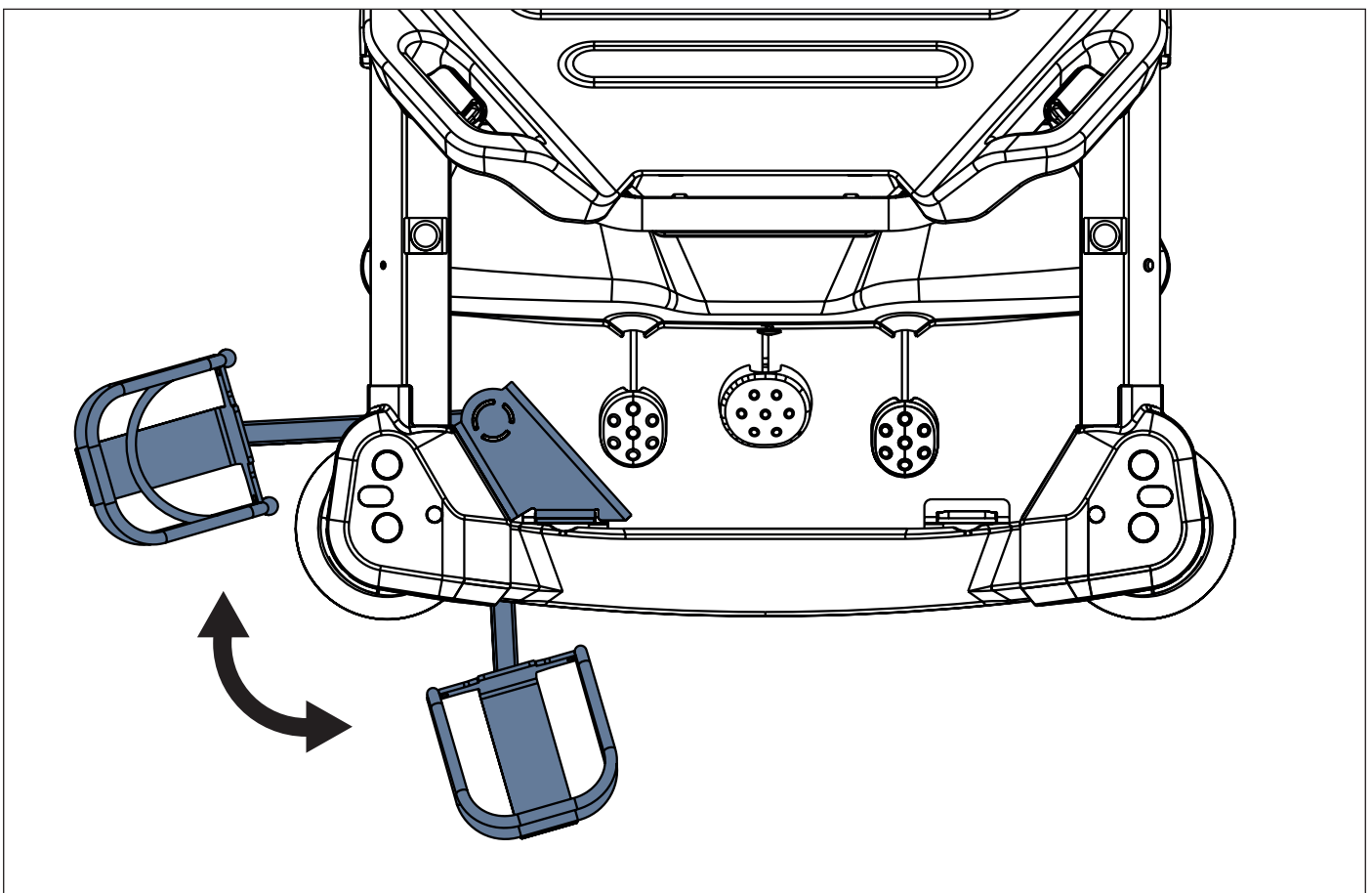


Fig. Two positions of the Oxygen Bottle Holder at head end on the left

21.8 Foot Supports

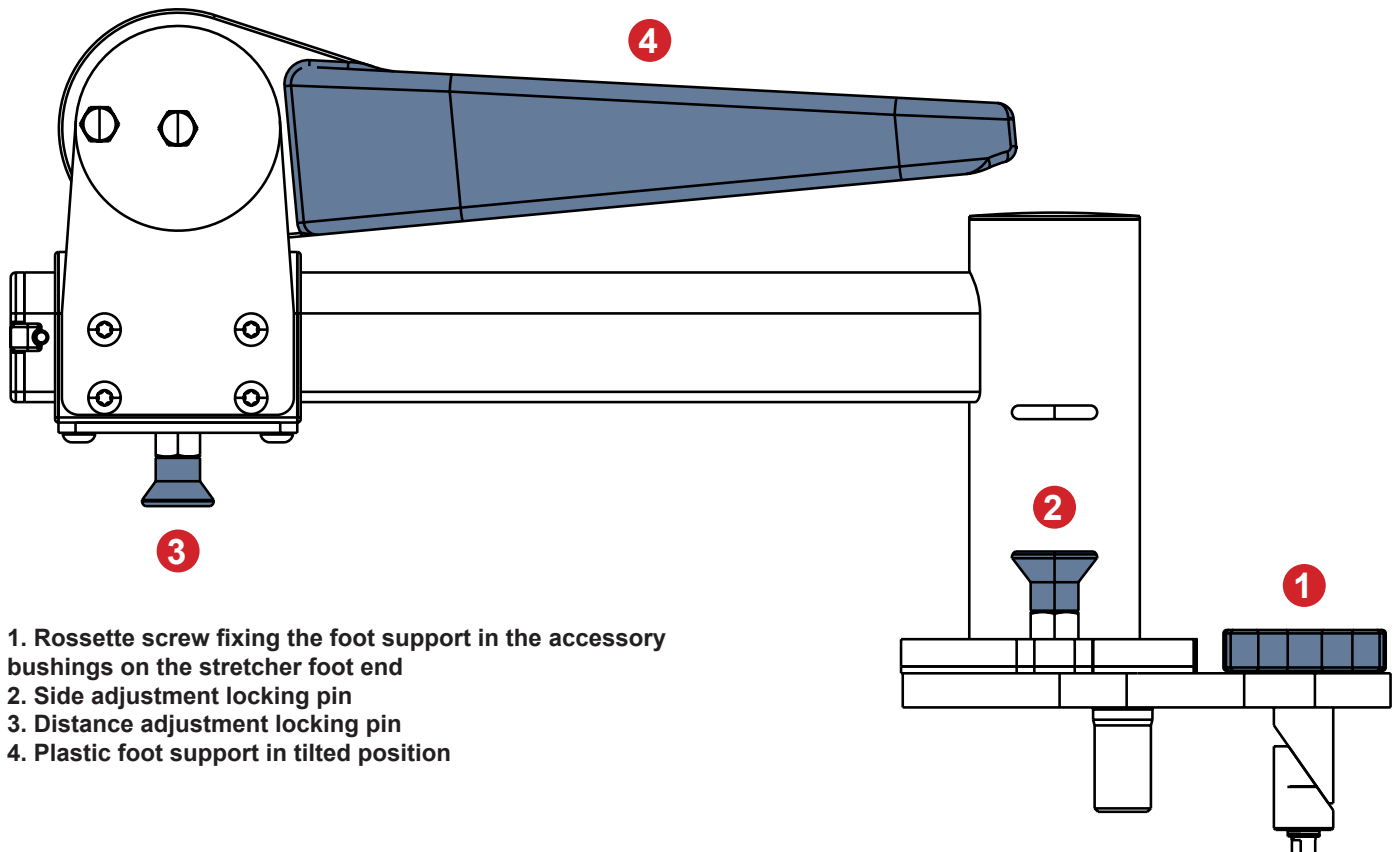


WARNING!

Risk of injury due to loss of stretcher stability when getting in and getting out of the stretcher equipped with foot supports!

► Hospital personnel is responsible for instructing patient to get into the stretcher or get out of the stretcher just from the right side or left side of the stretcher!

Foot supports are intended for supporting feet of an patient lying on the stretcher.
Pair of the Foot supports should be located in bushings for accessories at stretcher foot end.



1. Rossette screw fixing the foot support in the accessory bushings on the stretcher foot end
2. Side adjustment locking pin
3. Distance adjustment locking pin
4. Plastic foot support in tilted position

Fig. Foot Support description

To fix a Foot Support in the accessory bushings on the stretcher foot end:

- Insert the corresponding left or right Foot Support into the accessory bushings on the left or on the right.
- Tighten the rossette screw.
- Ensure by hand the Foot Support is fixed on the stretcher foot end.

To adjust a Foot Support sideways:

- Release the side adjustment locking pin (2) by lifting it up and turn the corresponding Foot support sideways.
- Stop the turning in selected position and leave the side adjustment locking pin (2).
- Ensure by hand the Foot Support is fixed in the selected position.

To set a distance of plastic foot support from the stretcher foot end:

- ▶ Release the distance adjustment locking pin (3) by pulling it down and shift the plastic foot support to the selected position in accordance with numerical scale on the foot support.
- ▶ Leave the distance adjustment locking pin (3).
- ▶ Ensure by hand the plastic foot support is fixed in the selected position.

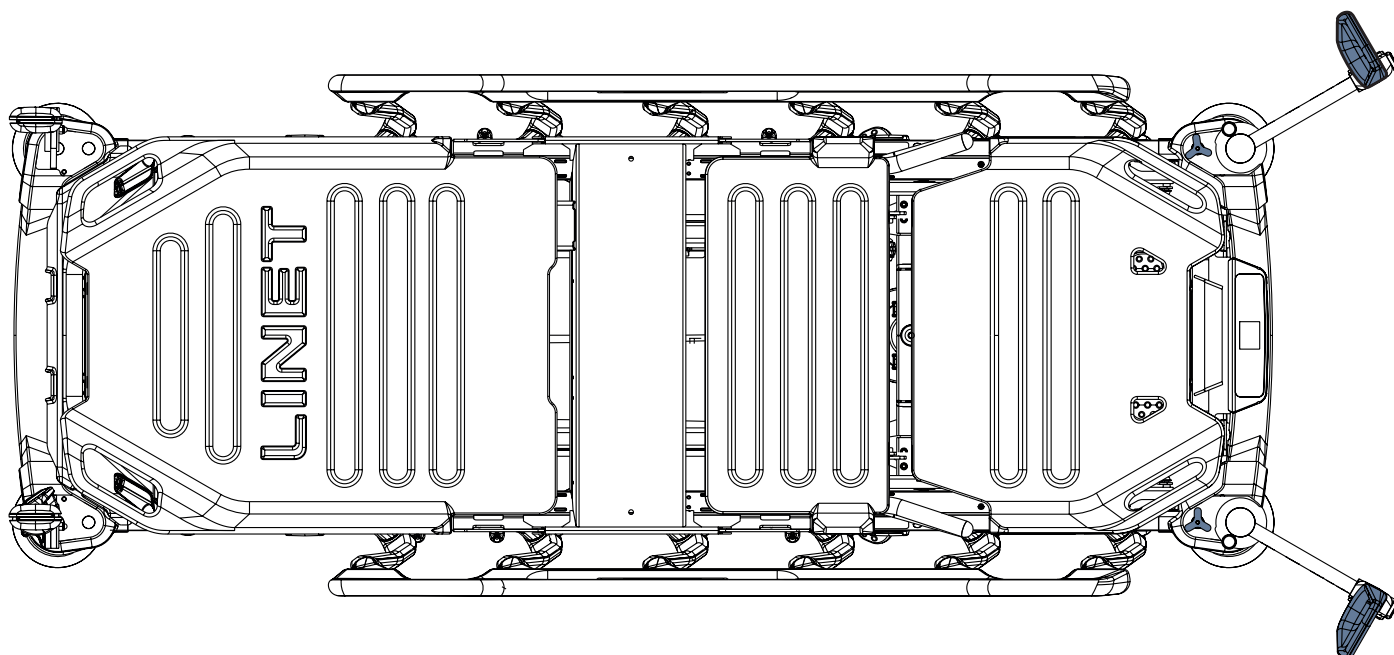


Fig. Foot Supports at stretcher foot end

To adjust a plastic foot support position:

- ▶ Move the plastic foot support up or down to reach a required position.

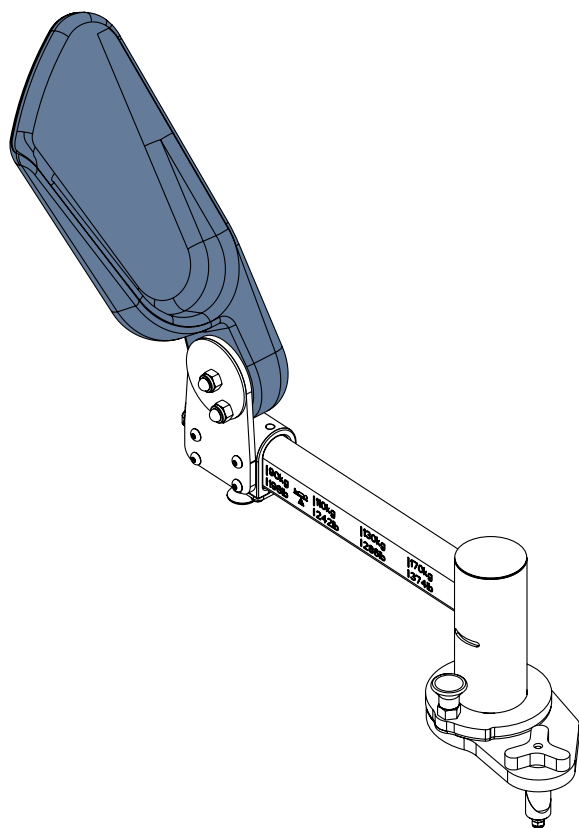


Fig. Plastic foot support in the examination position

21.8.1 Correct Use of the Foot Supports

Intention	Intended User	Procedure
Installation of Foot supports	Clinical caregiver, technical personnel	1) User will put foot support to the bushings for accessories at the stretcher foot end. Foot supports installation need to reflect left and right orientation of the foot supports. 2) User will tighten both foot supports until the movement of the retractor.
Setting the Foot supports for patient	Clinical caregiver	1) User will loose the adjustment mechanism on the bottom of the foot support. 2) User will adjust the foot support based on the weight of the patient by moving movable part of the foot support. 3) User will tighten the adjustment mechanism and tilt foot support. 4) Caregiver will repeat the same process with the second foot support. 5) User will go around the foot support to step into the front of the patient.
Adjusting the Foot supports when used with patient	Clinical caregiver, patient	1) Patient will lay down on the stretcher mattress support platform from the left or right side. 2) Caregiver will adjust position of the patient based on his or her weight. Pelvis needs to be situated far from the calfrest foot end. 3) Caregiver will put siderails up. 4) Patient will put feet on the foot supports.
Side adjustment of the Foot support	Clinical caregiver	1) User will pull the adjustment mechanism up and rotate with the selected foot support. 2) Adjustment mechanism must fit to the bushings for accessories to secure the selected position, then user should leave the mechanism.
Transporting the stretcher equipped with Foot supports	Clinical caregiver	1) User will set up foot supports for 90 kg (198 lb). 2) User will fold foot supports. 3) User will tilt the foot supports back (move with foot supports closer to the stretcher).
Removal of the Foot supports	Clinical caregiver	1) User will loose retractor until foot support could be pulled up without physical demandance. 2) User will pull foot support up from the bushings for accessories. 3) Same will be applied for second foot support.
Storage of the Foot supports	Clinical caregiver	1) User will remove foot supports and store it outside of the stretcher.

21.9 Head Support



WARNING!

Risk of injury due to incorrect use of the Head Support!

- ▶ Ensure the Head support is correctly installed on the backrest! Secure the fixing straps to the backrest!
- ▶ Ensure there is no body part under the Head Support when caregiver lowers or lifts the mattress support platform at patient's head!
- ▶ Do not transport the stretcher with installed Head Support when patient lies on the stretcher!

Head support is intended for supporting the head of a patient lying on the stretcher.

Head support should be located and fixed on the stretcher backrest.

Head support is equipped with two fixing straps intended for securing the head support to the stretcher backrest.

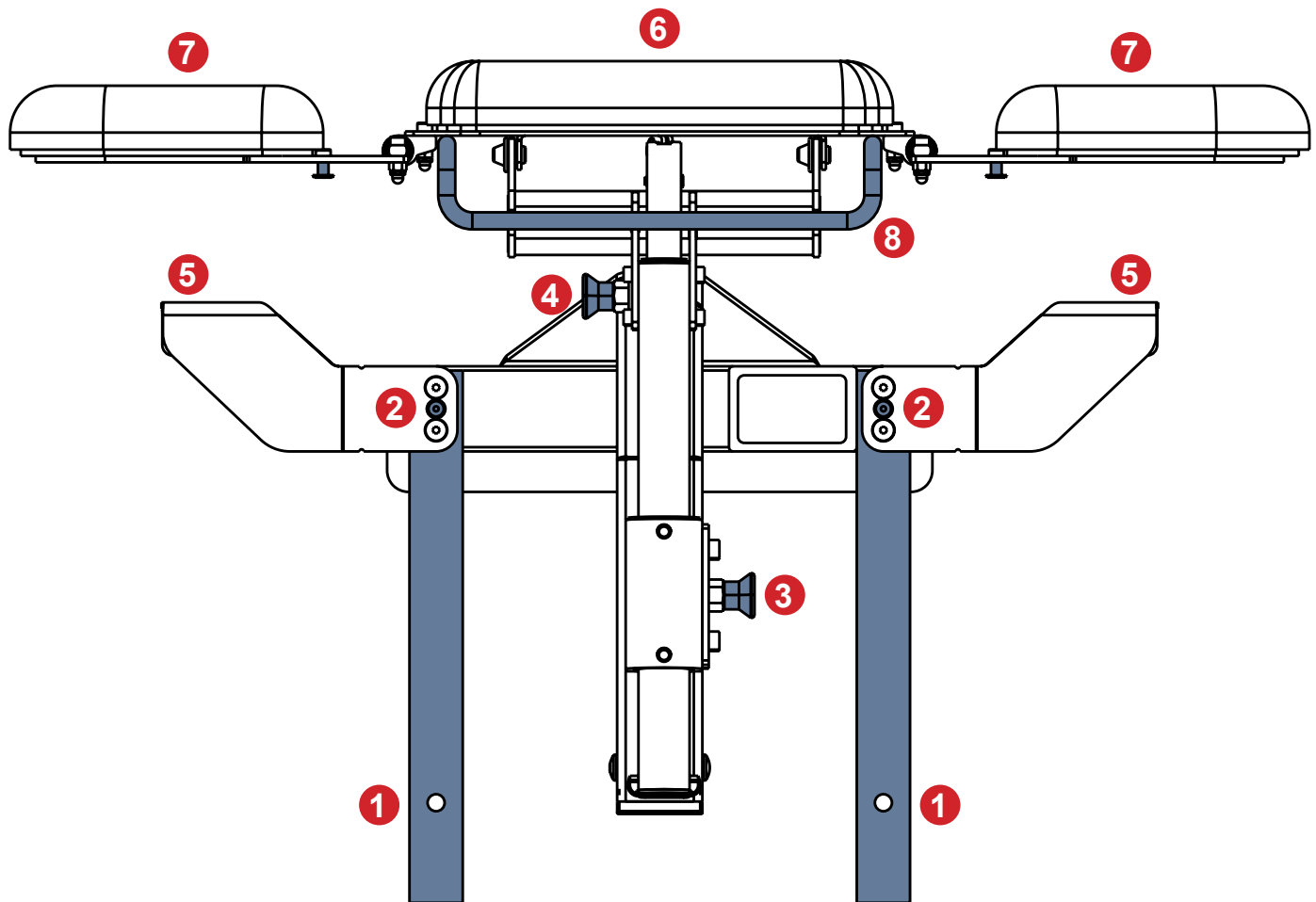


Fig. Head Support description

1. Fixing Strap
2. Anchor Point for the Fixing Strap
3. Locking Pin of the Head Height Adjustment
4. Locking Pin of the Head Tilt Adjustment
5. Attachment to the backrest frame
6. Headrest
7. Head Holder
8. Head Support Handle

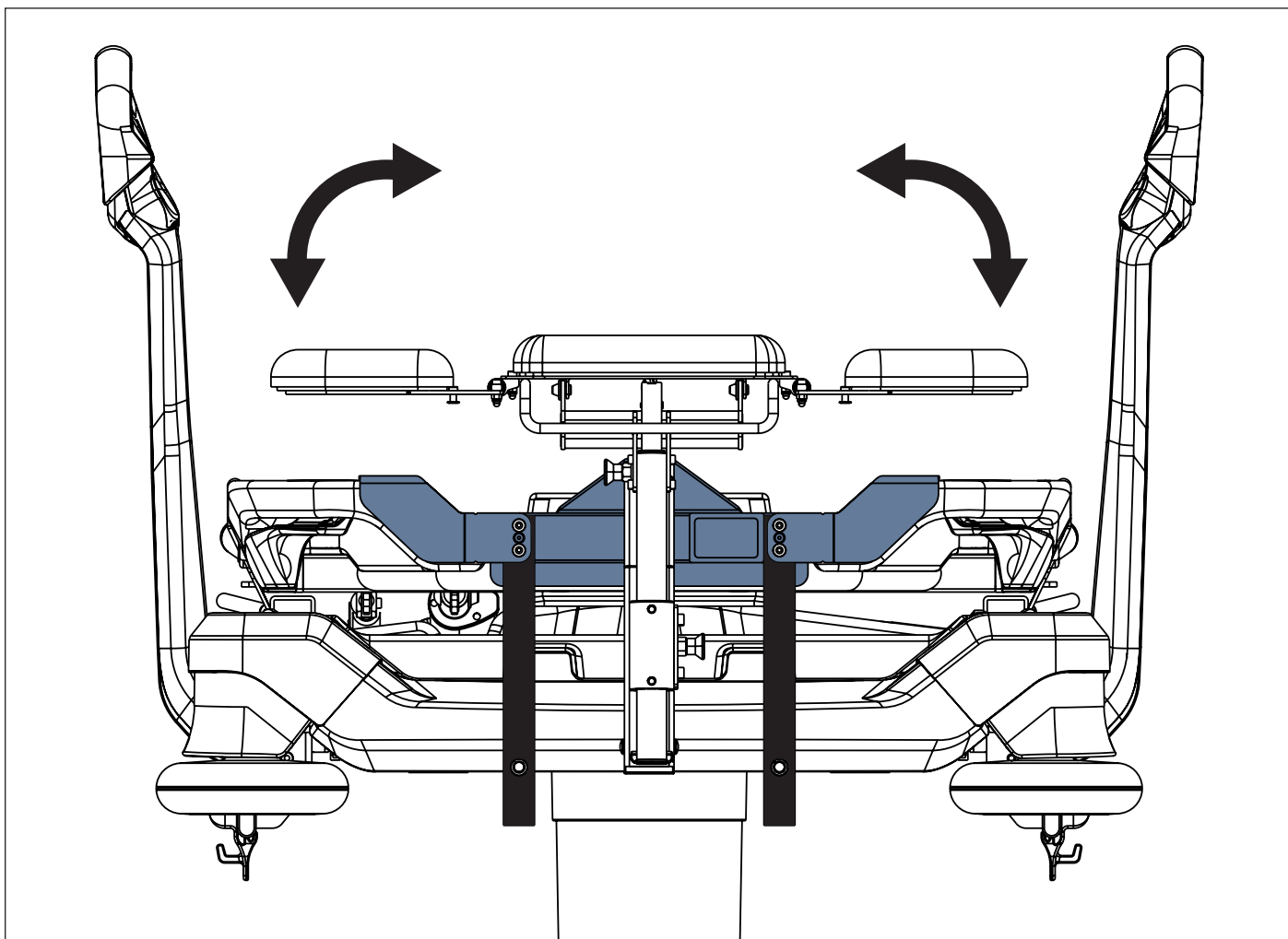


Fig. Manipulation with head holders

To secure Head Support on the stretcher backrest:

- ▶ Lead both black fixing straps down and run them behind the backrest frame up.
- ▶ Attach both black fixing straps to the anchor points for the fixing straps so that eyelets in the fixing straps are put on the anchor points.
- ▶ Lift mattress partly at head end.
- ▶ Hang the Head Support onto the backrest frame at head end.
- ▶ Put mattress down.
- ▶ Ensure by hand the Head Support is fixed on the stretcher backrest.

To prepare the Head Support for patient's head:

- ▶ Place patient's head on the headrest carefully.
- ▶ Lift both head holders up.

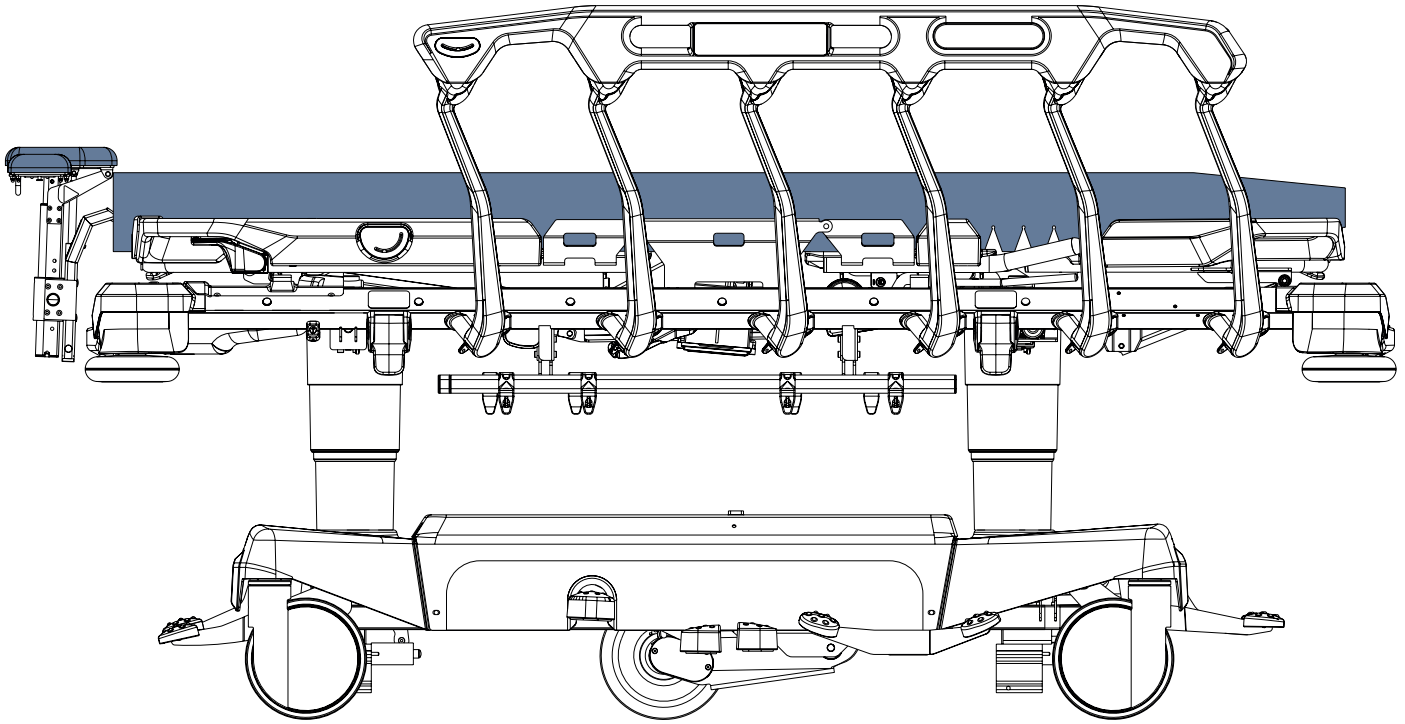


Fig. Head Support installed on the backrest at stretcher head end

To set the Head Support Height:

- ▶ Grab and hold Head Support Handle.
- ▶ Pull the Locking Pin of the Head Height Adjustment.
- ▶ Set head height by pushing or pulling the Head Support Handle.
- ▶ Release the Locking Pin of the Head Height Adjustment to lock the selected pre-defined position.
- ▶ Release the Head Support Handle.
- ▶ Ensure by hand the Head Support Height is locked.

To set the Head Support Tilt:

- ▶ Grab and hold Head Support Handle.
- ▶ Pull the Locking Pin of the Head Tilt Adjustment.
- ▶ Set head tilt by the Head Support Handle.
- ▶ Release the Locking Pin of the Head Tilt Adjustment to lock the selected pre-defined position.
- ▶ Release the Head Support Handle.
- ▶ Ensure by hand the Head Support Tilt is locked.

To prepare the height of mattress support platform for patient's examination:

- ▶ Ensure there are no body parts under the Head Support and lower the mattress support platform of the stretcher fully down. Ensure there is no body part under the Head Support also if caregiver lifts mattress support platform at patient's head!
- ▶ Perform the examination.

To set the Head Support as the mattress support platform extension:

- ▶ Align head height of the Head Support with a mattress height on the stretcher.
- ▶ Open both Head Holders to the sides.

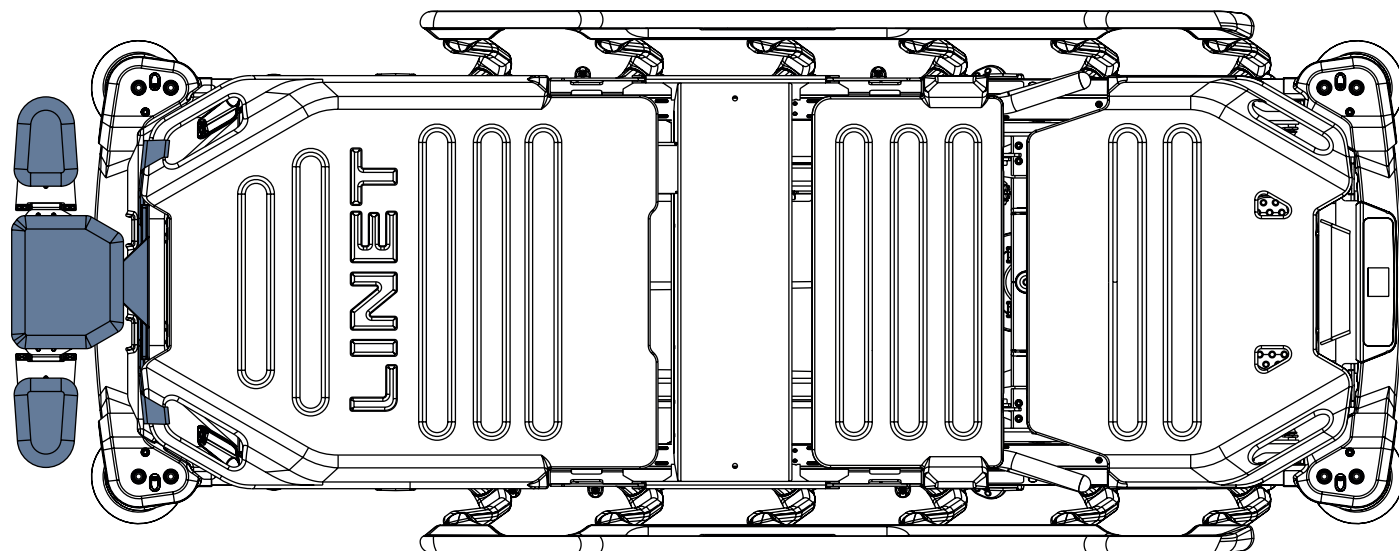


Fig. Head Support installed on the backrest as mattress support platform extension

To remove the Head Support from the backrest:

- ▶ Detach both black fixing straps from the anchor points for the fixing straps.
- ▶ Lift mattress partly at head end.
- ▶ Remove both attachments from the backrest frame.
- ▶ Put mattress down.
- ▶ Remove the Head Support from the stretcher and store it safely.

To clean the Head Support cushions:

- ▶ Remove cushions from the Headrest and from the Head Holders.
- ▶ Wipe the cushions with disinfectant and water.
- ▶ Wipe the space under the cushions.
- ▶ Let it all dry completely.
- ▶ Insert the cushions back into the Headrest and into the Head Holders.

21.9.1 Correct Users of the Head Support

Intention	Intended User
Installation of Head support	Clinical caregiver
Head Height Adjustment	Clinical caregiver
Head Tilt Adjustment	Clinical caregiver
Patient's Examination	Clinical caregiver
Setting the Head Support as mattress support platform extension	Clinical caregiver
Transport	Clinical caregiver, non-clinical caregiver
Removal	Clinical caregiver
Cleaning	Clinical caregiver, non-clinical caregiver

22 Cleaning and Disinfection



WARNING!

Risk of infection due to incorrect cleaning and disinfection!

- ▶ Ensure the bed is correctly cleaned and correctly disinfected as it is necessary for safe use of the bed together with the concrete patient!
- ▶ Ensure the bed is used with correctly cleaned and correctly disinfected accessories!



WARNING!

Risk of injury due to incorrect preparation!

- ▶ Ensure pedals will not be pressed accidentally during cleaning.
- ▶ Ensure the Sprint 400 is disconnected from the mains before cleaning the Sprint 400.



WARNING!

Risk of environmental pollution!

- ▶ If oil leaks from hydraulic units or gas springs contact the manufacturer's service department!



WARNING!

Use only a damp cloth or a wet wipe to clean the Power Supply Cord and the place of connection of the Power Supply Cord to the undercarriage cover!



CAUTION!

Material damage due to incorrect cleaning/disinfection!

- ▶ Do not use washing tunnels to clean the stretcher.
- ▶ Do not use pressure or steam cleaners.
- ▶ Follow the instructions and observe the dosages recommended by the manufacturer.
- ▶ Ensure that disinfectants are selected and applied exclusively by qualified hygiene experts.
- ▶ Respect used materials during cleaning and disinfection! For information see the following table.
- ▶ **Check if used cleaning agents and disinfectants are compatible with materials that the product consists of! For information see the following table.**

STRETCHER COMPONENTS THAT ARE INTENDED TO BE CLEANED	MATERIALS (SURFACES OF THE MENTIONED STRETCHER COMPONENTS)
Do not clean what is not mentioned in this column!	Competent user is responsible for check if used cleaning agents and disinfectants are compatible with mentioned materials!
Stretcher ends at head and at feet	Polypropylene (PP) + Lacquered steel
Siderails	Polypropylene (PP) + Polyamide (PA) + glass fibers
Siderail control elements (Siderail Control Panel, Patient Control Panel)	Autotex film + Polypropylene (PP)
Mattress support platform cover (Backrest)	Polypropylene (PP)
Mattress support platform cover (Thighrest)	Polypropylene (PP)
Mattress support platform cover (Calfrest)	Polypropylene (PP)
Seat section	Lacquered steel
Castors	Polypropylene (PP)
Castor control levers, lifting levers with pedals, lowering levers with pedals	Polypropylene (PP) + Lacquered steel
Frame of the mattress support platform	Lacquered steel
Column covers	Polypropylene (PP)
Undercarriage cover	Acrylonitrile butadiene styrene (ABS)
Corner covers	Polypropylene (PP)
Covers of mattress support platform sides	Lacquered steel
Corner bumpers	Polypropylene (PP)
Labels	BO319-transfer PET white top / S8002 / HF140 with lamination PP20 matt transparent
Accessory rails	Lacquered steel + Stainless steel
Fixed handles, Foldable handles	Lacquered steel
Foldable infusion stands	Lacquered steel + Stainless steel + Polyamide (PA)
Power Supply Cord	Ethylene-propylene rubber (EPR)
Scales Control Panel (only Sprint 400 with scales)	Autotex film + Acrylonitrile butadiene styrene (ABS)
Scales System LW20 Boxes (only Sprint 400 with scales)	Acrylonitrile butadiene styrene (ABS)
Cables	Polyvinyl chloride (PVC)

For safe and gentle cleaning:

- ▶ Do not use any strong acids or bases (optimum pH range 6 - 8).
- ▶ Exclusively use detergents that are suitable for cleaning medical equipment.
- ▶ Do not use abrasive powders, steel wool, or other materials and cleaning agents that might damage the compatible mattress.
- ▶ Never use any corrosive or caustic detergents.
- ▶ Never use detergents that deposit calcium carbonate.
- ▶ Never use detergents with solvents that might affect the structure and consistency of the plastics (benzene, toluene, acetone, etc.).
- ▶ Observe local directives regarding infection control.
- ▶ Make sure any cleaning agent used is approved by:
 - the facility in which the compatible mattress is to be used.
 - by the environmental protection agency of the country in which the compatible mattress is to be used.

22.1 Cleaning the Sprint 400

Prepare for cleaning as follows:

- ▶ Put the Mattress Support Platform in the highest position.
- ▶ Adjust the Backrest and Thighrest/Foot section so that the reverse sides are accessible.
- ▶ Move the stretcher to the location where it will be cleaned.
- ▶ Lock the brakes on the stretcher.

22.1.1 Cleaning before Changing Patients

Clean the following stretcher parts:

- All control elements for adjusting the stretcher
- All handles
- Head End and Foot End
- Siderails (in highest position)
- Freely accessible mattress surface
- Accessory rails
- All Mattress Support Platform covers
- Plastic undercarriage covers
- Column covers
- Mattress on all sides
- Freely accessible metal parts of Mattress Support Platform
- Infusion stand sleeve fitting
- Bumpers
- Castors
- Brakes

22.1.2 Daily Cleaning

Clean the following stretcher parts:

- All control elements for adjusting the stretcher
- All handles
- Head End and Foot End
- Siderails (in highest position)
- Freely accessible mattress surface
- Accessory rails

22.1.3 Complete Cleaning and Disinfection

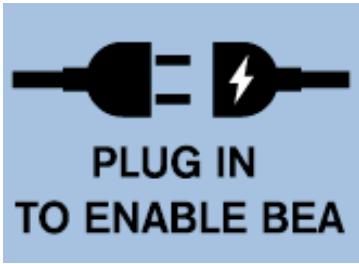
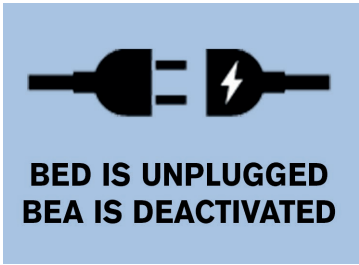
Clean the following stretcher parts:

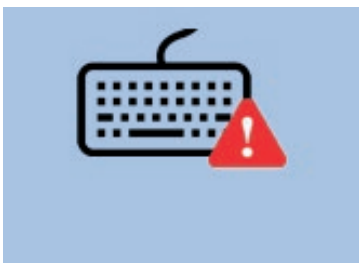
- All control elements for adjusting the stretcher
- All handles
- Head End and Foot End
- Siderails (in highest position)
- Freely accessible mattress surface
- Accessory rails
- All Mattress Support Platform covers
- Plastic undercarriage covers
- Column covers
- Mattress on all sides
- Freely accessible metal parts of Mattress Support Platform
- Infusion stand sleeve fitting
- Bumpers
- Castors
- Brakes

23 Troubleshooting for the Sprint 400 stretcher

Error/Fault	Cause	Solution
Faulty Mattress Support Platform Height Adjustment	Obstacle on the undercarriage cover.	Remove the obstacle.
	Obstacle under the pedals.	Remove the obstacle.
	Faulty pedal.	Notify the manufacturer's service department.
Lowering Backrest from the upright position not possible	Obstacle under the Backrest or in the drive mechanism.	Remove the obstacle.
	Backrest Release Handle is defective.	Notify the manufacturer's service department.
Adjusting Siderails not possible	Obstacle in the Siderail Release Mechanism.	Remove the obstacle.
	Siderail Release Mechanism is defective.	Notify the manufacturer's service department.
Unlocking Siderail not possible	Incorrect Use.	Do not push the siderail towards stretcher head end when unlocking the siderail by the yellow Siderail Release Levers!
		Ensure no patient and no mattress push the siderail towards stretcher head end when unlocking the siderail by the yellow Siderail Release Levers!
		Push the siderail slightly towards stretcher foot end to facilitate manipulation with the yellow Siderail Release Levers if needed.
Faulty brakes	Obstacle blocking brakes mechanically.	Remove the obstacle.
	The brake mechanism is defective.	Notify the manufacturer's service department.
Bed Exit Alarm Monitoring cannot be activated.	Sprint 400 with scales is disconnected from the mains.	Connect Sprint 400 with scales to the mains.
Scales and Bed Exit Alarm Monitoring Control Panel indicates no accumulator.	Failure of the scales.	Notify the manufacturer's service department.
Negative weight value is displayed on the display.	No Taring was performed.	Zero the scales.
Stabilized Scales Icon is flashing all the time.	Scales are not stabilized.	Do not touch the Sprint 400 with scales.
Indicator of the stretcher disconnected from the mains is lit all the time.	Power Supply Cord is disconnected from the mains or from the Sprint 400 with scales.	Ensure the Sprint 400 with scales is correctly connected to the mains power.
BED EXIT WAITING is shown on the display.	Insufficient weight on the mattress support platform of Sprint 400 with scales is detected.	Place patient on the mattress support platform before activation of the Bed Exit Alarm Monitoring. Minimum patient weight for Bed Exit Alarm Monitoring is 35kg.

23.1 Pop-up windows

Status (Pop-up window)	Meaning	How to change the status
	Operator tries to activate the Bed Exit Alarm Monitoring when battery is critically discharged or disconnected.	Connect the Sprint 400 stretcher to the mains power and activate the Bed Exit Alarm Monitoring.
 PLUG IN TO ENABLE BEA	Sprint 400 with scales is disconnected from the mains when operator turns on the Bed Exit Alarm Monitoring.	Connect Power Supply Cord to the mains and activate the Bed Exit Alarm Monitoring.
 BED IS UNPLUGGED BEA IS DEACTIVATED	Bed Exit Alarm Monitoring is activated and Sprint 400 with scales becomes disconnected from the mains.	Connect Power Supply Cord to the mains.

Status (Pop-up window)	Meaning	How to change the status
	Scales fault (fault number starts with letter F).	Contact service department approved by manufacturer.
	Fault of the communication between scales system components.	Contact service department approved by manufacturer.
	Fault of the Scales and Bed Exit Alarm Monitoring Control Panel. This fault can be caused by an object pushing on the keyboard or by a long press on a button of the Control Panel lasting more than 60s or by the damaged keyboard.	Contact service department approved by manufacturer if cause of this fault cannot be removed from the keyboard.
	Critical Fault.	There is a fault number starting with letter A or B or F under the warning triangle shown on the display. Contact service department approved by manufacturer.
	Sprint 400 with scales is overloaded.	Remove overload!

23.2 Fault Codes

Fault Code (according to the starting letter)	Fault Type
A	Keyboard fault (It can also be caused by a long press on a button of the Control Panel.)
B	Fault of the scales system hardware
F	Scales system fault

24 Maintenance of the Sprint 400 stretcher



WARNING!

Risk of injury when working on the stretcher!

- ▶ Ensure that the stretcher is disconnected from the mains power prior to installation, putting into service, maintenance and deinstallation.
- ▶ Ensure that the castors are locked prior to installation, putting into service, maintenance and deinstallation.
- ▶ No part of the Sprint 400 ME equipment shall be serviced or maintained while in use with a patient.



WARNING!

Risk of injury due to defective stretcher!

- ▶ Have a defective stretcher repaired immediately.
- ▶ If the defect cannot be repaired, do not use the stretcher.



CAUTION!

Material damage due to incorrect maintenance!

- ▶ Ensure that maintenance is performed exclusively by manufacturer's customer service or by authorised service personnel certified by the manufacturer.
- ▶ If the defect cannot be repaired, do not use the stretcher.

LINET ® recommends attaching the maintenance plaque to the stretcher.

24.1 Regular maintenance

- ▶ Check regularly movable parts for wear.
- ▶ Perform regularly visual check of the product (with delivery note if necessary).
- ▶ Ask service department of the manufacturer for addition of the original spare parts if some product parts are missing.
- ▶ Ask service department of the manufacturer for replacement of any damaged product parts by the original spare parts.
- ▶ Check that the batteries are working properly. Disconnect the stretcher from the mains power to check signalisation of battery indicator according to the instructions for use.
- ▶ Have the batteries replaced if they are not working properly.
- ▶ Check regularly that all accessories are working properly.
- ▶ Replace damaged accessories immediately.

24.2 Spare Parts

The serial label is located on the frame of the mattress support platform. The serial label contains information for claims and ordering replacement parts.

Information about spare parts is available from:

- Manufacturer's customer service
- Sales department

24.3 Electrical Safety Check and Preventive Maintenance

24.3.1 Electrical Safety Check



WARNING!

Risk of injury due to incorrect electrical safety checks!

- ▶ Ensure that electrical safety checks are performed exclusively by manufacturer's customer service or by authorised service personnel certified by the manufacturer.
- ▶ Ensure that the electrical safety checks are recorded in accordance with local regulations and Manufacturer's recommendation.

Electrical safety check of the stretcher must be performed at least once every 12 months.

The procedure for performing the electrical safety check is stipulated in EN 62353:2014.

24.3.2 Preventive Maintenance

Preventive maintenance is the routine service operations of equipment to ensure safe use, prevent unexpected failures and extend life span.

To ensure the correct Preventive Maintenance:

- ▶ Ensure that preventive maintenance is performed exclusively by manufacturer's customer service or by authorised service personnel certified by the manufacturer.
- ▶ Ensure that preventive maintenance is performed in strict accordance with the Service Manual and the mandatory process steps described in the Preventive Maintenance – Checklist.
- ▶ Ensure that the electrical safety checks are recorded in accordance with local regulations and Manufacturer's recommendation.

Preventive maintenance of the stretcher must be performed at least once every 12 months.

NOTE On request, the manufacturer will provide service documentation (e.g. circuit diagrams, component part lists, descriptions, calibration instructions etc.) for service personnel for the repair of ME equipment designated by the manufacturer as repairable by service personnel.

25 Disposal of the Sprint 400 stretcher

25.1 Environment Protection

The company LINET® is aware of the importance of environmental protection for future generations. Within this company the environmental management system is applied in accordance with the internationally agreed standard ISO 14001. The compliance with this standard is annually tested by the external audit executed by an authorised company. Based on the **WEEE** - Waste, Electric and Electronic Equipments Directive the company LINET, s. r. o. is registered in the List of Electric and Electronic Equipment Producers (**Seznam výrobců elektrozařízení**) on the Ministry of the Environment of the Czech Republic (Ministerstvo životního prostředí).

Materials used in this product are not environmentally hazardous. LINET® products meet valid requirements of national and European legislation in the areas of **RoHS** and **REACH**, so they do not contain any prohibited substances in excess quantities. None of the wooden parts is made of tropical wood (such as mahogany, rosewood, ebony, teak etc.) or made of timber from the Amazon region or from similar rainforests. Product noise (sound pressure level) meets requirements of the regulations for the protection of public health against undesirable effects of noise and vibration in protected interior spaces of buildings. Used packaging materials are in accordance with requirements of the Packaging Act (**Zákon o obalech**). For disposal of packaging materials after installation of products contact your sales representative or manufacturer's customer service about the possibility of a free take-back of packaging through an authorized company (more details on www.linnet.cz).

25.2 Disposal

Materials used in this product and in the LINET® accessories burden the environment but at the same time the whole range of these materials can be very effectively reused and recycled. Mechanical disassembly of the product and material sorting into the basic waste types (plastic, metal, wooden materials) should be performed after the end of product life. The main objective of the obligations arising from the European Directive on Waste, Electric and Electronic Equipments is to increase the re-use, material recovery and recovery of electric and electronic equipment at the required level, thereby avoiding the production of waste and thereby avoiding the possible harmful effects of hazardous substances contained in electric and electronic equipment on human health and the environment. LINET® electric and electronic equipments that have a built-in battery or accumulator are designed so that the used batteries or accumulators can be safely removed by LINET® qualified service technicians. There is an information about its type on the built-in battery or accumulator.

25.2.1 Within Europe

To dispose of the electric and electronic equipment:

- ▶ The electric and electronic equipment must not be disposed of as household waste.
- ▶ Dispose of this equipment at designated collection points or take-back points.
- ▶ Dispose of the product or its components or its accessories in accordance with local laws and regulations!
- ▶ Hire an approved waste disposal company for disposal!

To dispose of the other equipment:

- ▶ The equipment must not be disposed of as household waste.
- ▶ Dispose of this equipment at designated collection points or take-back points.

LINET® participates in a collective system with take-back company REMA System. By bringing electric and electronic equipment to a take-back point, you participate in recycling and you save primary raw material resources while protecting your environment from effects of unprofessional disposal.

25.2.2 Outside Europe

- ▶ Dispose of the product or its components in accordance with local laws and regulations!
- ▶ Hire an approved waste disposal company for disposal!

26 Warranty

LINET® will only be held responsible for the safety and reliability of products that are regularly serviced, maintained and used in accordance with the safety guidelines included in the instructions for use.

Should a serious defect arise that cannot be repaired during maintenance:

- Do not continue to use the Sprint 400 stretcher.

The warranty on this product and its conditions depend on the agreement between the buyer and the seller, in addition to the legal minimum guarantee provided by law.

The warranty covers all material and manufacturing-related failures and errors. Failures and errors caused by incorrect use and external effects are not covered. Justified complaints will be fixed free of charge during the warranty period. Proof of purchase, with the date of purchase, is required for all warranty service. Our standard terms and conditions apply.

27 Standards and Regulations

27.1 Sprint 400

Applied norms:

- IEC 60601-1
- IEC 60601-1-6
- ISO 14971
- ANSI/AAMI ES60601-1
- CAN/CSA C22.2 NO. 60601-1

27.2 Manufacturer

The manufacturer adheres to a certified quality management system in compliance with the following standards:

- ISO 9001
- ISO 14001
- ISO 13485
- MDSAP (Medical Device Single Audit Program)