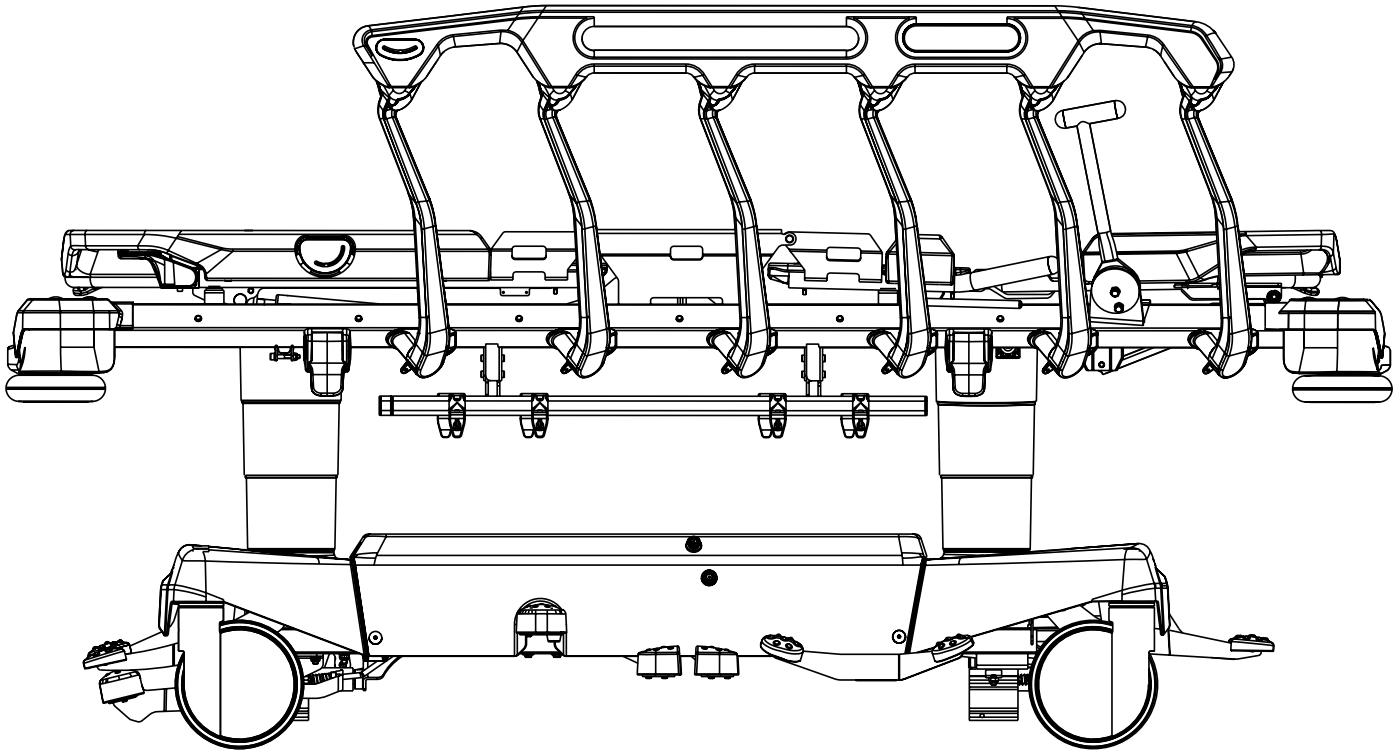
LINET

Instructions for Use and Technical Description



Sprint® 200

Emergency Stretcher

with scales and without scales
with i-Drive Power®
and without i-Drive Power®

CE 0123 CE UKCA

D9U001ES2-0101

Version: 07

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Sprint 200
Emergency Stretcher

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Related links: www.linet.com

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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

SIGNAL WORDS!
Type and source of danger!
► Measures to avoid the risk, if necessary.

1.2 Instructions

Structure of instructions:

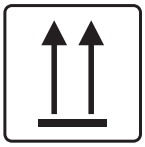
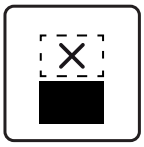
► Perform this step.
Results, if necessary.

1.3 Lists

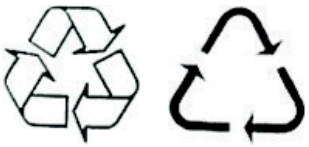
Structure of bulleted lists:

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

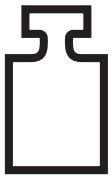
1.4 Symbols on the Package

	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

1.5 Symbols on the Stretcher

	READ INSTRUCTIONS FOR USE
	SAFE WORKING LOAD
	WARNING AGAINST CRUSHING OR TRAPPING
	JACK FOR ATTACHMENT OF CONDUCTOR FOR POTENTIAL EQUALISATI-ON
	GENERAL WARNING SIGN
	APPLIED PARTS TYPE **B**
	ONLY SUITABLE FOR INDOOR USE
	MAXIMUM WEIGHT OF PATIENT
	WEIGHT OF STRETCHER (depending on configuration)
	RECYCLING SYMBOLS
	DO NOT POLLUTE THE ENVIRONMENT

	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

MD	MEDICAL DEVICE (COMPATIBLE WITH MEDICAL DEVICE REGULATION)
	WEEE SYMBOL (RECYCLE AS ELECTRONIC WASTE, DO NOT PUT INTO THE HOUSEHOLD WASTE)
LOT	BATCH NUMBER (ACCESSORIES)
UDI	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	**CE** MARKING FOR SPRINT 200 WITHOUT SCALES (PRODUCT NORMATIVELY HARMONIZED FOR EUROPEAN ECONOMIC AREA)
CE 0123	**CE** MARKING FOR SPRINT 200 WITH SCALES (PRODUCT NORMATIVELY HARMONIZED FOR EUROPEAN ECONOMIC AREA)
	EARTH GROUND

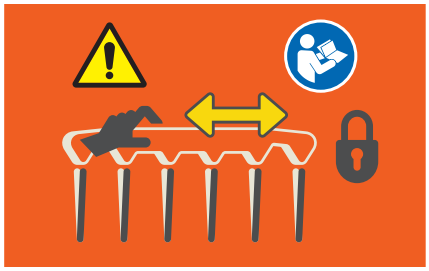
	ALARM ON/OFF
	ALARM INTERRUPTED (PAUSED)
	CAUTION LABEL: CONFIRM SIDERAIL IS LOCKED (PUSH SIDERAIL TOWARDS HEAD END AND FOOT END TO ENSURE THE SIDERAIL IS LOCKED IN THE UPPER POSITION!)
	UNLOCKED AND LOCKED SIDERAIL LABEL (RED SIDE PARTS OF BOTH SIDERAIL RELEASE LEVERS ARE NOT VISIBLE WHEN THE SIDERAIL IS LOCKED IN THE UPPER POSITION.)
UK CA	UK CONFORMITY ASSESSED (UKCA) MARKING (ONLY SPRINT 200 WITHOUT SCALES OR SPRINT 200 WITH i-DRIVE POWER NORMATIVELY HARMONIZED FOR GREAT BRITAIN ECONOMIC AREA)
UK REP	AUTHORIZED REPRESENTATIVE IN GREAT BRITAIN
CH REP	AUTHORIZED REPRESENTATIVE IN SWITZERLAND

Fig. Warning, read instructions for use

1.5.1 Scales Indentification Label (only Sprint 200 with scales)

The hardware and software versions depend on the state of design at the manufacturing date.

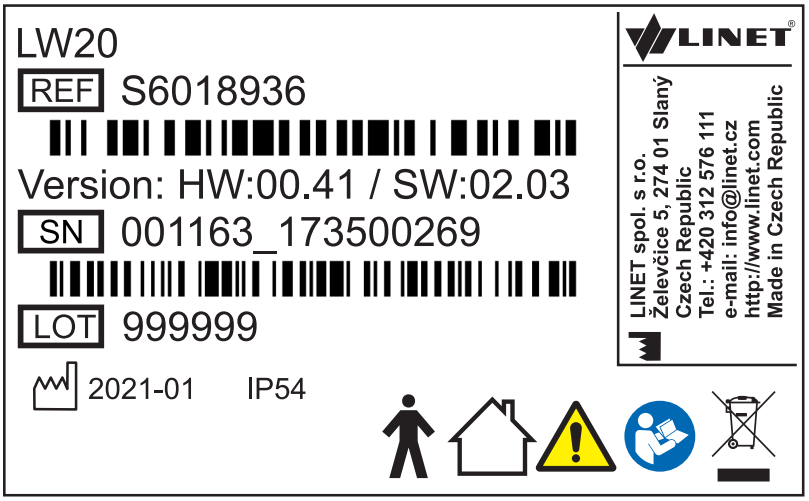


Fig. Example of Scales LW20 label

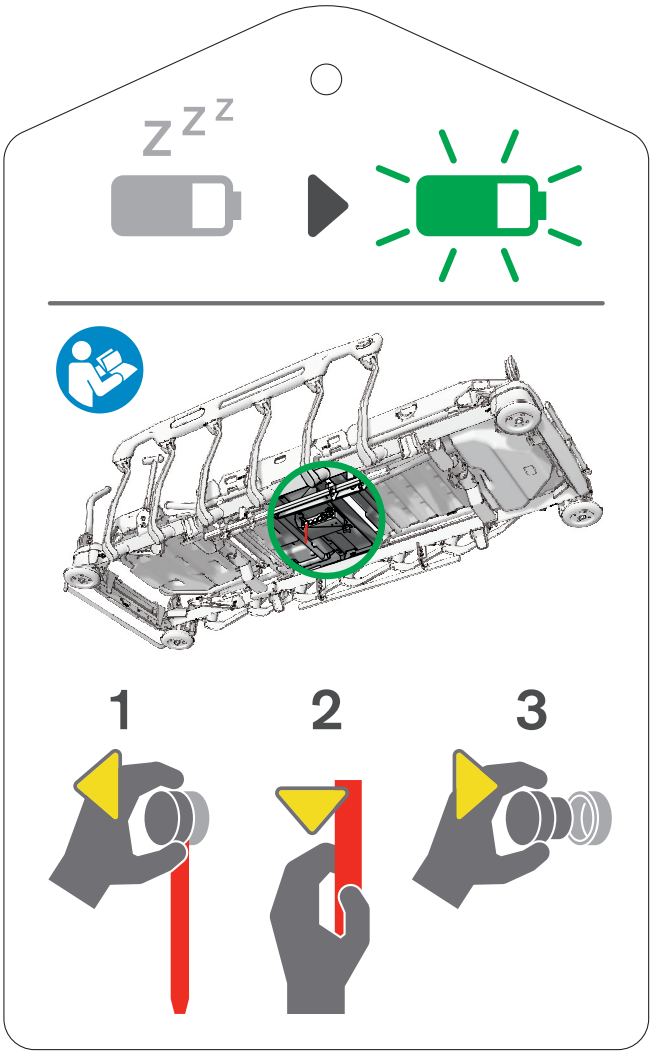
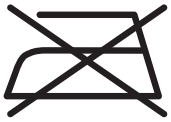
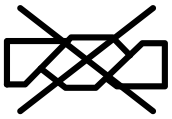
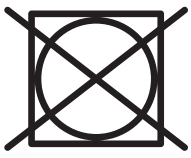
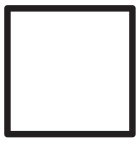
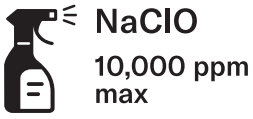


Fig. Battery Activation Instructions

1.6 Symbols on the Mattress

	READ INSTRUCTIONS FOR USE
CE	**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
PHENOL	DO NOT USE PHENOL
	DO NOT WRING
	REGULARLY INSPECT THE INSIDE OF THE COVER FOR CONTAMINATION
71°	MACHINE WASH AT MAX. 71°C FOR 3 MINUTES
	DO NOT WASH (ONLY FOR MATTRESS COVER EQUIPPED WITH THE X--RAY POCKET)
	DO NOT TUMBLE DRY (ONLY FOR MATTRESS COVER EQUIPPED WITH THE X-RAY POCKET)

	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)
	DISINFECT USING SOLUTION CONTAINING LESS THAN 10,000 ppm OF CHLORINE (SEE CHAPTER ‘CLEANING OF PASSIVE MATTRESS’)
	DISINFECT USING SOLUTION CONTAINING LESS THAN 1000 ppm OF CHLORINE (SEE CHAPTER ‘CLEANING OF PASSIVE MATTRESS’)
	RINSE WITH WARM WATER

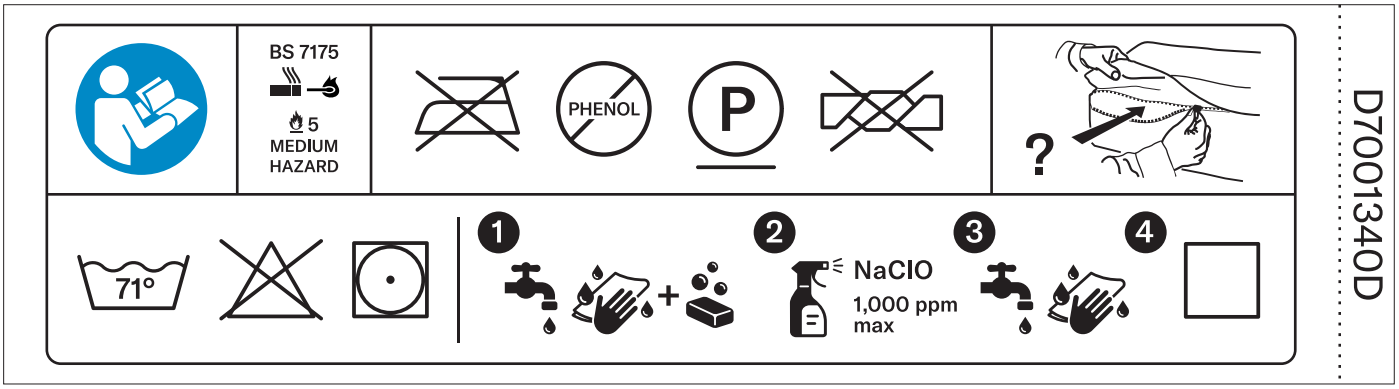


Fig. Mattress Wash Label for Sprint 200 mattresses without X-ray Pocket

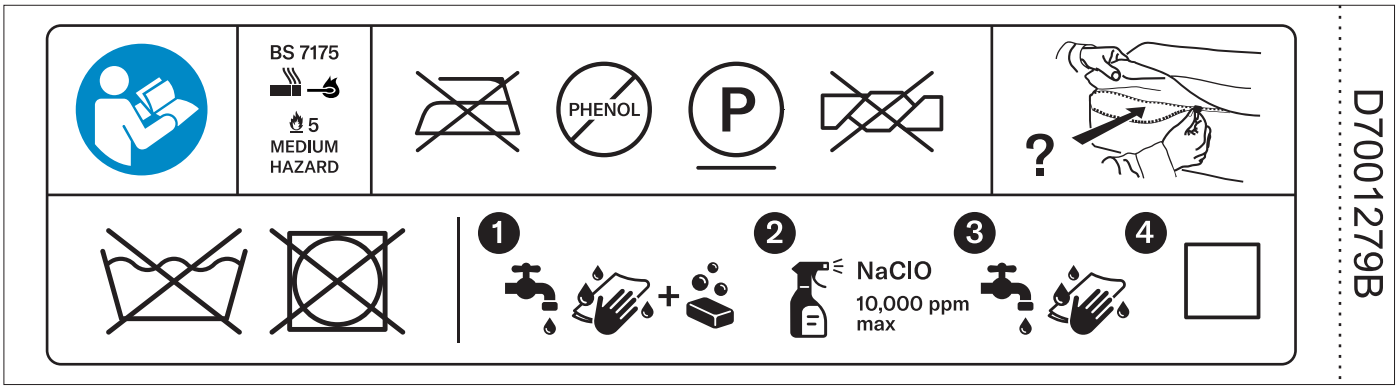


Fig. Mattress Wash Label for Sprint 200 mattresses with X-ray Pocket

1.7 Serial Label with UDI

1.7.1 Sprint 200

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

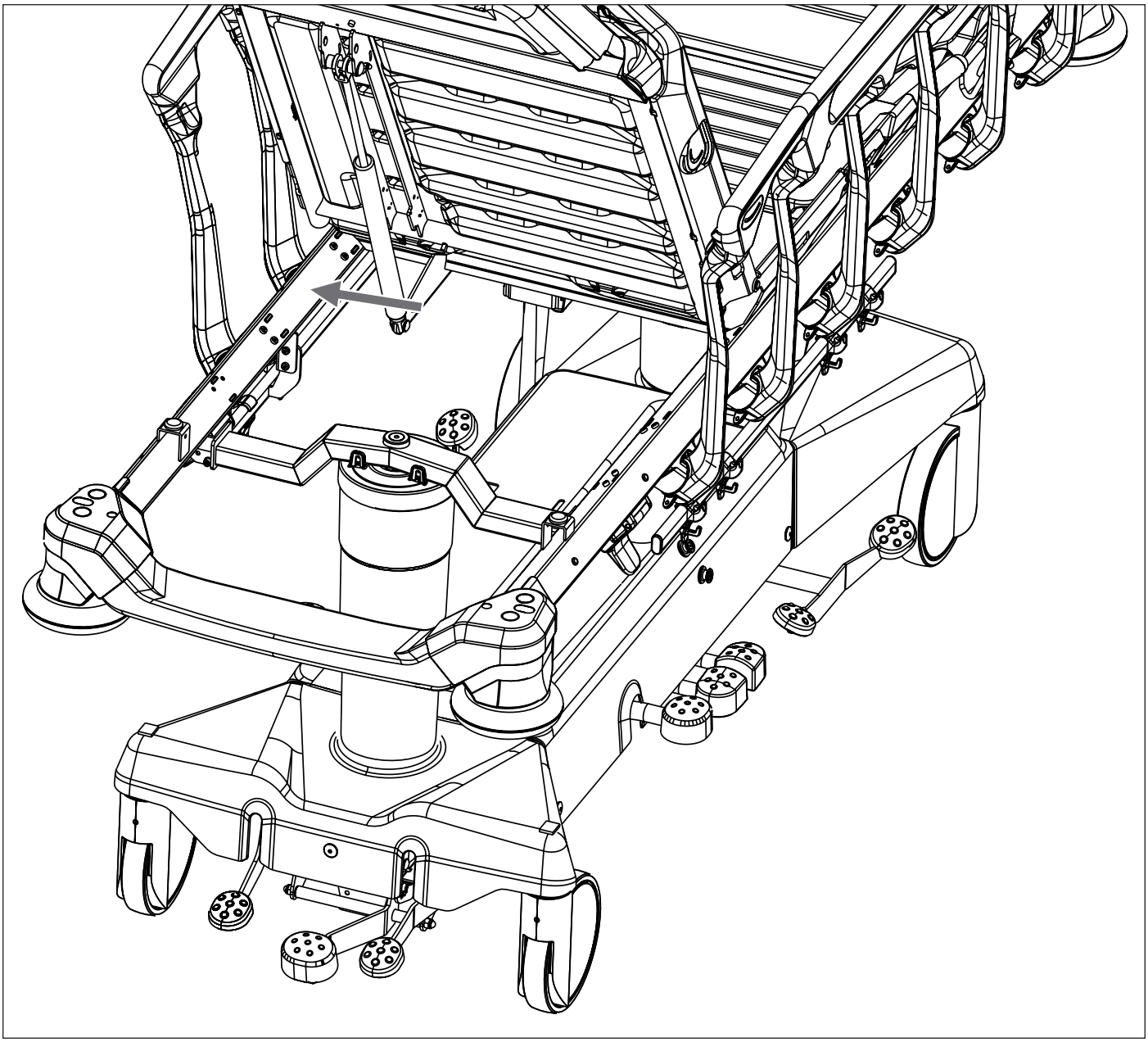


Fig. Position of serial label on the Sprint 200

1.8 Acoustic signalisation (only Sprint 200 with scales or with i-Drive Power)

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
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)

1.9 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.
Maximum Mass of Mobile Hospital Bed	Sum of Empty Stretcher Maximum Mass and Safe Working Load.
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.

1.10 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
IP	Ingress Protection
IV	Intravenous
LED	Light Emitting Diodes
ME	Medical Electrical (Equipment)
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

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!
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 fuse in Battery Box of the scales system!

WARNING!
An additional multiple socket-outlet or extension cord shall not be connected to the medical electrical system of Sprint 200 with scales or with i-Drive Power.

WARNING!
Inappropriate handling of the power supply cord of Sprint 200 with scales or with i-Drive Power, 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 200 with scales or with i-Drive Power (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.

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 200!

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 cointain an mineral oil. The mineral oil should not get into the sewerage because of toxicity for water organisms.

3 Intended use of the Sprint 200 without scales

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 in the stretcher in the indoor environment. For the outdoor environment specific precautions in the instructions for use are valid.

► Adjustment of the positions needed for the, examinations, treatments, physiotherapy, sleeping, relaxation, preventive and mobilization reasons, routine nursing. These positions are further specified and described in the clinical evaluation of this device, together with their potential clinical outcomes and benefits.

► Providing the safe environment for the patient during all relevant procedures. The particular requirements on patient safety are the subject of the clinical evaluation, including evaluation of the risk/benefit ratio. The relevant safety issues are the part of the risk management file.

► Providing the suitable working conditions for the caregivers to perform the routine and specific tasks during the patient hospitalization.

3.1 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)

► Caregivers (nurses, doctors, technical personnel, transport personnel, cleaning personnel)

3.2 Contraindications

► The medical device is not intended for the pediatric patients use.

► 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.

3.3 Operator

► Caregiver

► Patient (based on individual patient status assessment by caregiver the patient can utilize dedicated device functions)

4 Intended use of the Sprint 200 with scales

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 in the stretcher in the indoor environment. For the outdoor environment specific precautions in the instructions for use are valid.

► Adjustment of the positions needed for the, examinations, treatments, physiotherapy, sleeping, relaxation, preventive and mobilization reasons, routine nursing. These positions are further specified and described in the clinical evaluation of this device, together with their potential clinical outcomes and benefits.

► Providing the safe environment for the patient during all relevant procedures. The particular requirements on patient safety are the subject of the clinical evaluation, including evaluation of the risk/benefit ratio. The relevant safety issues are the part of the risk management file.

► 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 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)

► Caregivers (nurses, doctors, technical personnel, transport personnel, cleaning personnel)

4.2 Contraindications

► The medical device is not intended for the pediatric patients use.

► 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.

4.3 Operator

► Caregiver

► Patient (based on individual patient status assessment by caregiver the patient can utilize dedicated device functions)

5 Intended use of the Sprint 200 mattresses

The intended use of the Sprint 200 Standard mattress, Sprint 200 Comfort mattress, Sprint 200 Advanced mattress and Sprint 200 Reactive mattress is to provide basic support surface for patient being treated on LINETs Sprint 200 range of stretchers only. Mattresses are intended for all adult patients. Caregivers are responsible for evaluation of mattress suitability for patients at risk of pressure injury according to hospital/country/EPUAP/NPIAP standards for pressure injury prevention. The use of these mattresses does not remove the need for regular repositioning in line with best clinical practice (ref: NPIAP, EPUAP).

5.1 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)
► Caregivers (nurses, doctors, technical personnel, transport personnel, cleaning personnel)

5.2 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)

5.3 Operator

► Caregiver

6 Product Description

6.1 Hierarchy of Product Variants

1. level	Sprint 200							
2. level	Sprint 200 without scales				Sprint 200 with scales			
	Sprint 200 without i-Drive Power		Sprint 200 with i-Drive Power		Sprint 200 without i-Drive Power		Sprint 200 with i-Drive Power	
3. level	Sprint 200 with 2-part Mattress Support Platform	Sprint 200 with 4-part Mattress Support Platform	Sprint 200 with 2-part Mattress Support Platform	Sprint 200 with 4-part Mattress Support Platform	Sprint 200 with 2-part Mattress Support Platform	Sprint 200 with 4-part Mattress Support Platform	Sprint 200 with 2-part Mattress Support Platform	Sprint 200 with 4-part Mattress Support Platform

Following pictures show some common features of the product variants of the third level (2-part Mattress Support Platform and 4-part Mattress Support Platform).

6.2 Sprint 200 WITH 4-PART MATTRESS SUPPORT PLATFORM

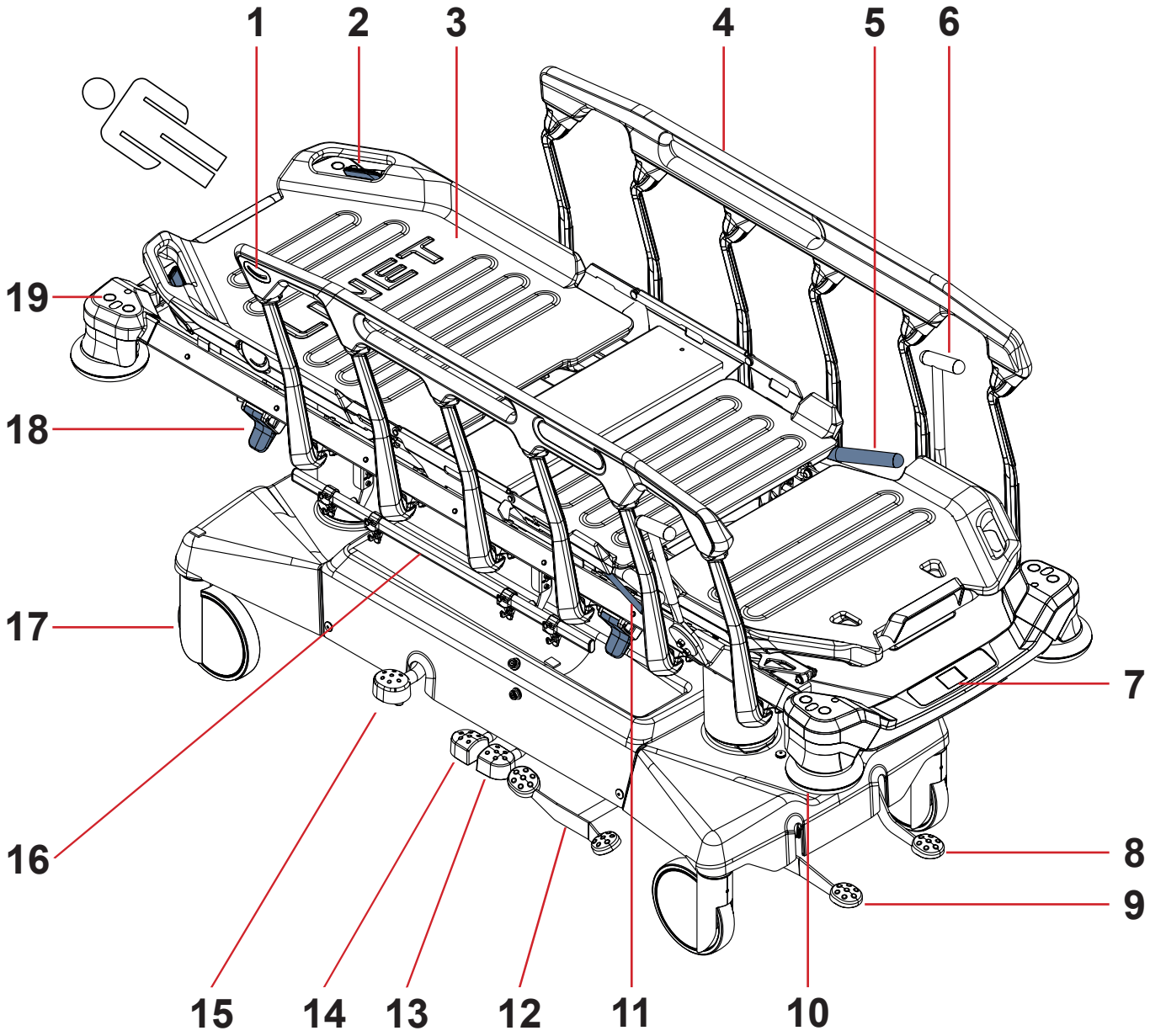


*Fig. Stretcher Overview (Sprint 200 with **4-part Mattress Support Platform**)*

1. Angle Indicator
2. Backrest Release Handle
3. Mattress Support Platform
4. Collapsible Siderail
5. Thighrest Handle
6. Mobi-Lift® Handle
7. Scales and Bed Exit Alarm Control Panel
8. Drive Pedal
9. Brake Pedal
10. Corner Bumper
11. Thighrest Latch
12. Drive Pedal and Brake Pedal (optional)
13. Foot End Lowering Pedal
14. Head End Lowering Pedal
15. Lifting Pedal
16. Accessory Rail with hooks
17. Castor
18. Siderail Release Lever
19. Bushings for Accessories

6.3 Sprint 200 WITH 2-PART MATTRESS SUPPORT PLATFORM

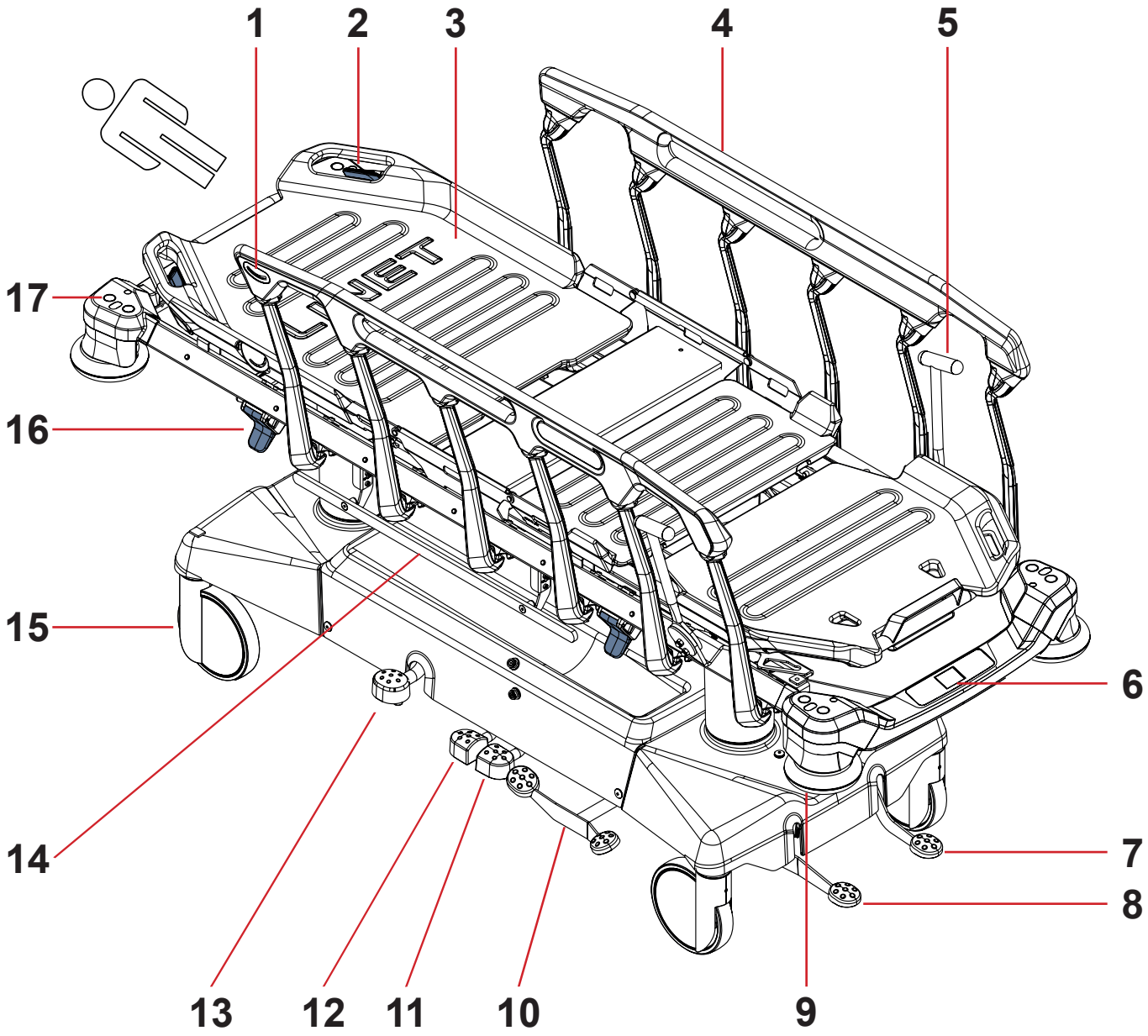


*Fig. Stretcher Overview (Sprint 200 with **2-part Mattress Support Platform**)*

1. Angle Indicator
2. Backrest Release Handle
3. Mattress Support Platform
4. Collapsible Siderail
5. Mobi-Lift® Handle
6. Scales and Bed Exit Alarm Control Panel
7. Drive Pedal
8. Brake Pedal
9. Corner Bumper
10. Drive Pedal and Brake Pedal (optional)
11. Foot End Lowering Pedal
12. Head End Lowering Pedal
13. Lifting Pedal
14. DIN Rail for Accessories
15. Castor
16. Siderail Release Lever
17. Bushings for Accessories

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)

All part of the stretcher (and accessories) the patient can reach are type B Applied Parts.

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

7.2 Mechanical Specifications (Sprint 200)

Sprint 200 WITH 4-PART MATTRESS SUPPORT PLATFORM

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 / Anti-Trendelenburg Tilt Angle	+17°/-17°
Maximum Angle between Calfrest and Thighrest	115°
Average Stretcher Weight of the Sprint 200 without i-Drive Power and without scales	143 kg / 315 lb
Average Stretcher Weight of the Sprint 200 with i-Drive Power and without scales	154 kg / 340 lb
Average Stretcher Weight of the Sprint 200 without i-Drive Power and with scales	150 kg / 331 lb
Average Stretcher Weight of the Sprint 200 with i-Drive Power and with scales	161 kg / 355 lb
SWL (Stretcher Safe Working Load)	320 kg / 705 lb
Maximum Patient Weight	280 kg / 617 lb
Maximum Mass of Mobile Hospital Bed (Maximum Mass of Empty Stretcher without i-Drive Power and without scales + Safe Working Load)	486 kg / 1071 lb
Maximum Mass of Mobile Hospital Bed (Maximum Mass of Empty Stretcher with i-Drive Power and without scales + Safe Working Load)	497 kg / 1096 lb
Maximum Mass of Mobile Hospital Bed (Maximum Mass of Empty Stretcher without i-Drive Power and with scales + Safe Working Load)	493 kg / 1087 lb
Maximum Mass of Mobile Hospital Bed (Maximum Mass of Empty Stretcher with i-Drive Power and with scales + Safe Working Load)	504 kg / 1111 lb
Ergoframe Distances (Backrest Distance/Thighrest Distance)	7,5 cm / 3 cm
Maximum Sound Pressure Level	71 dBA

Sprint 200 WITH 2-PART MATTRESS SUPPORT PLATFORM

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°
Trendelenburg Tilt Angle / Anti-Trendelenburg Tilt Angle	+17°/-17°
Maximum Angle between Calfrest and Thighrest	115°
Average Stretcher Weight of the Sprint 200 without i-Drive Power and without scales	143 kg / 315 lb
Average Stretcher Weight of the Sprint 200 with i-Drive Power and without scales	154 kg / 340 lb
Average Stretcher Weight of the Sprint 200 without i-Drive Power and with scales	150 kg / 331 lb
Average Stretcher Weight of the Sprint 200 with i-Drive Power and with scales	161 kg / 355 lb
SWL (Stretcher Safe Working Load)	320 kg / 705 lb
Maximum Patient Weight	280 kg / 617 lb
Maximum Mass of Mobile Hospital Bed (Maximum Mass of Empty Stretcher without i-Drive Power and without scales + Safe Working Load)	486 kg / 1071 lb
Maximum Mass of Mobile Hospital Bed (Maximum Mass of Empty Stretcher with i-Drive Power and without scales + Safe Working Load)	497 kg / 1096 lb
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Ergoframe Distances (Backrest Distance/Thighrest Distance)	7,5 cm / 3 cm
Maximum Sound Pressure Level	71 dBA

7.3 Electrical Specifications (only Sprint 200 with scales or with i-Drive Power)

Parameter	Value
Input Voltage, Frequency (Sprint 200 only with scales)	100 — 240V AC, 50/60 Hz
Input Voltage, Frequency (Sprint 200 only 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
Input Voltage, Frequency (Sprint 200 with scales and 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 (Sprint 200 only with scales)	24 VA
Maximum Power Input (Sprint 200 only with i-Drive Power)	400 VA
Maximum Power Input (Sprint 200 with scales and with i-Drive Power)	400 VA
Ingress Protection according to EN 60529 (Sprint 200 with scales or with i-Drive Power)	IPX4
Batteries of the scales system	4 x AA LR6 1,5V (6V DC)
Batteries of the i-Drive Power system	3 x 12V 9Ah VRLA
Fuses in the Battery Box for scales system	T1A
Fuses in the Power supply for scales system	2 x T1A L 250V
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 (Sprint 200 with scales or with i-Drive Power)	Class I

7.4 Environment Conditions of the Sprint 200

WARNING!
Risk of damaging the product due to incorrect environment conditions!
► Do not use the Sprint 200 stretcher under the environmental conditions outside of those specified in the Environment Conditions of the Sprint 200 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 200 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

7.5 Electromagnetic Compatibility (only Sprint 200 with scales or with i--Drive Power)

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 stetcher Sprint 200 with scales or with i-Drive Power, including cables specified by manufacturer. Otherwise this could lead to deterioration of functionality of this stretcher.

WARNING!
Do not overload the stretcher (SWL) and consider chapter 24 Maintenance in order to maintain the basic safety with regard to electromagnetic disturbances for the expected service life.

7.5.1 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.

7.5.2 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

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.

WARNING!
Risk of damaging the product due to incorrect storage!
► **Remove the 4 batteries from the Battery Box before storage of the Sprint 200 with scales!**

Sprint 200 is designed for use in rooms for medical purposes. Electrical installations connected to the Sprint 200 with scales or with i-Drive Power must therefore meet local norms laying down the necessary conditions for electrical installations.

To increase the safety of electrical equipment:
► Disconnect the Sprint 200 with scales or with i-Drive Power 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 200 is not suitable for indoor environments containing flammable gases (except oxygen cylinders).
Sprint 200 with scales or with i-Drive Power is suitable for continuous operation.

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 200 Emergency Stretcher
■ Instructions for Use

9.3 Sprint 200 Variants

Basic Configuration:

- ■ 2-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
  - □ Backrest and Siderail (on sides)

Optional stretcher features:

- ■ Mattress Support Platform
  - □ 4-part Mattress Support Platform
- ■ Handles
  - □ 1x pair of Foldable handles (Head End)
  - □ 1x pair of Foldable 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.
► Raise siderails up.
► Install accessories.
► Set up the stretcher exclusively on a suitable floor surface (see Transport).

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 200 has Mattress Support Platform with two sections or four sections.

4-PART MATTRESS SUPPORT PLATFORM

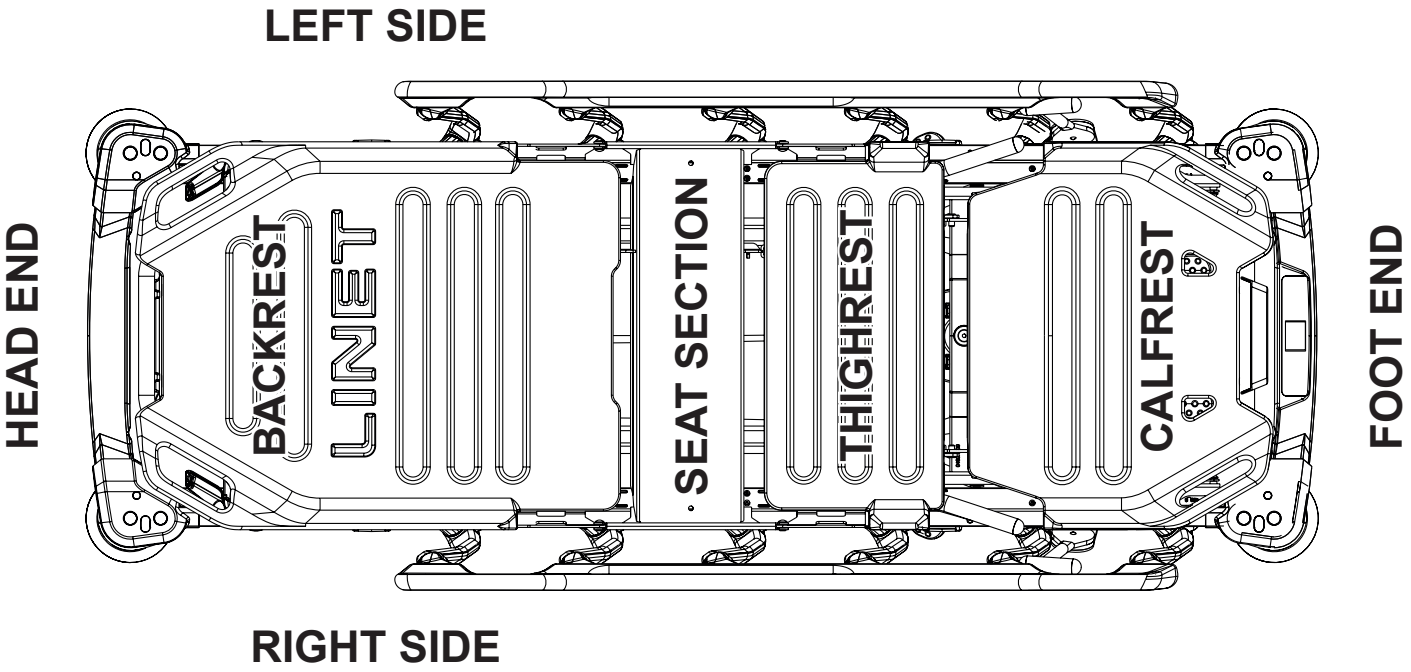


Fig. 4-part Mattress Support Platform

2-PART MATTRESS SUPPORT PLATFORM

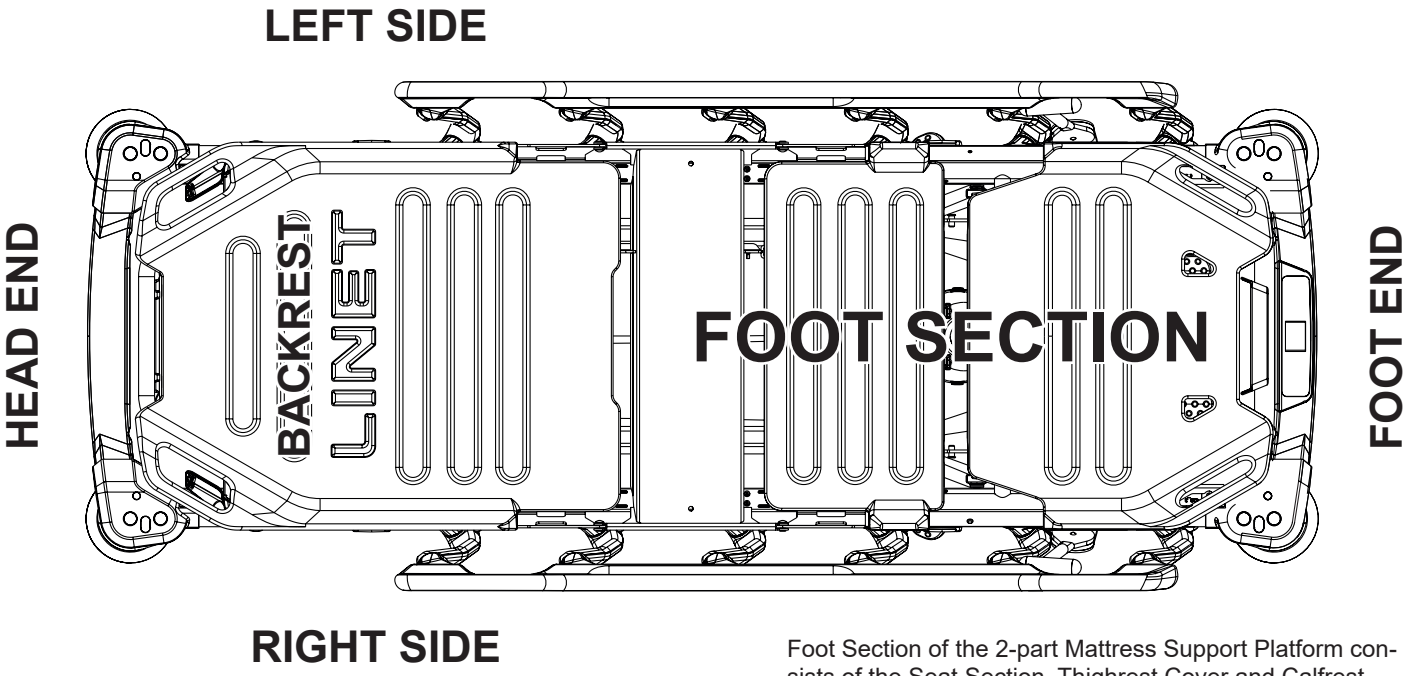


Fig. 2-part Mattress Support Platform

Foot Section of the 2-part Mattress Support Platform consists of the Seat Section, Thighrest Cover and Calfrest Cover. The Seat Section, Thighrest and Calfrest cannot move in relation to each other in this case.

10.1.1 Removal of the Plastic Mattress Support Platform Covers

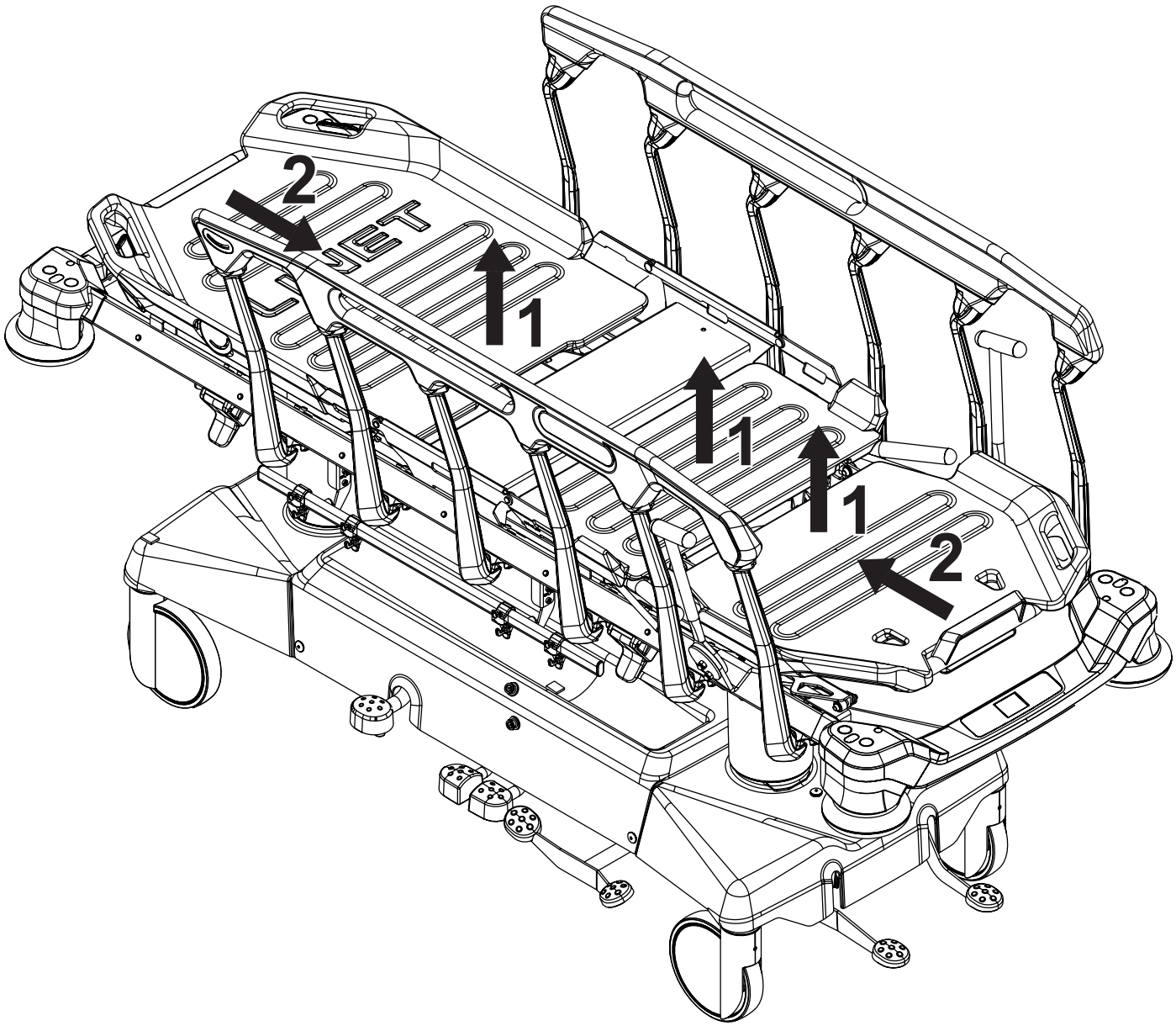


Fig. Instructions to remove the plastic mattress support platform covers

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

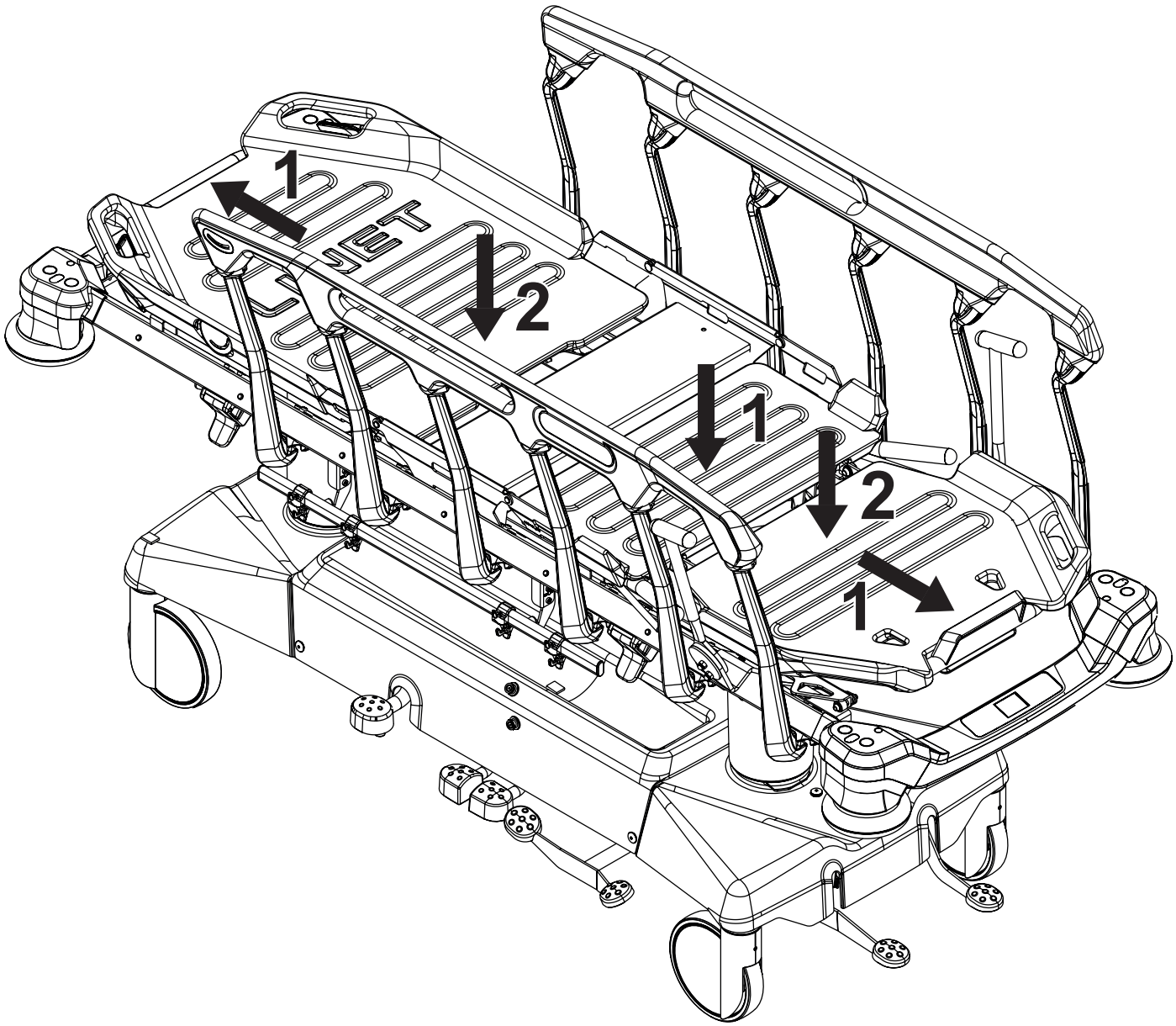


Fig. Instructions to insert the plastic mattress support platform covers

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 or 2-part mattress support platform.

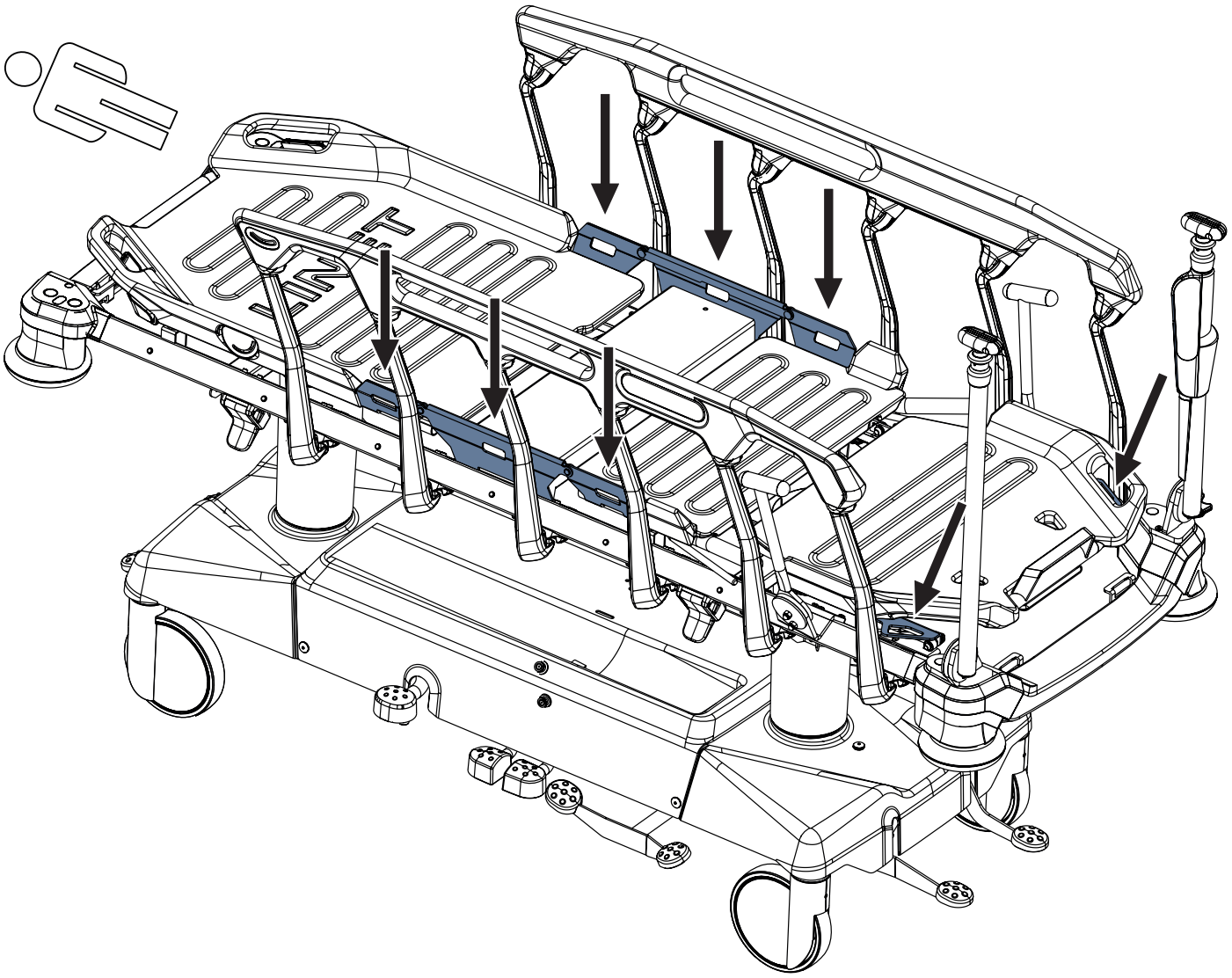


Fig. Eight Patient Restraint Points (4-part mattress support platform)

10.2 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.

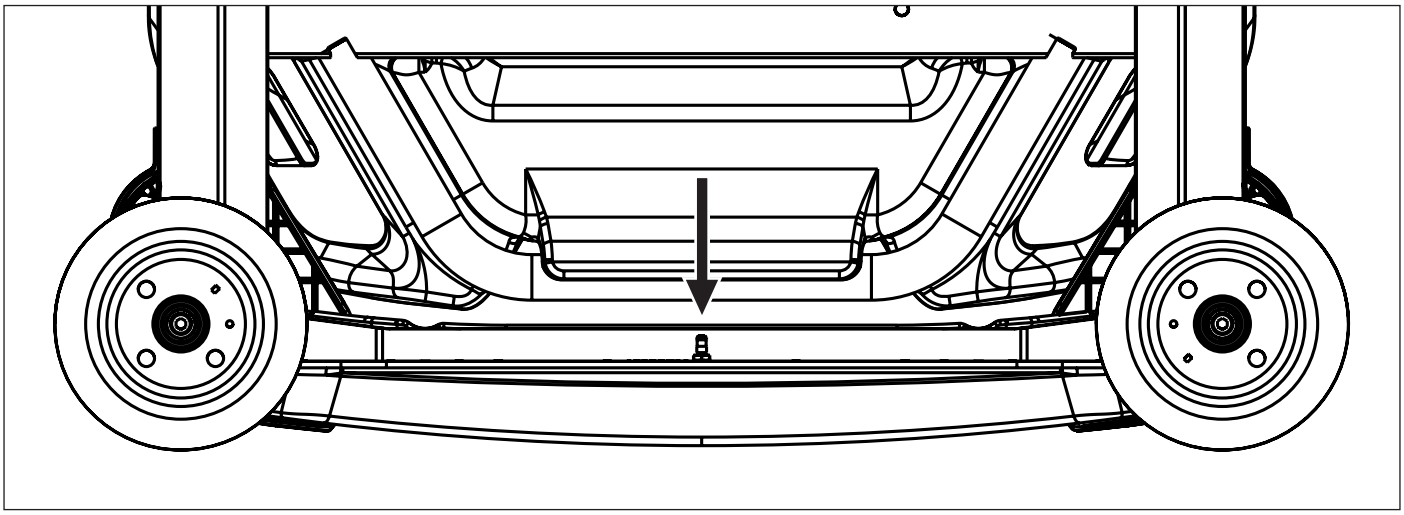


Fig. Potential equalisation - male (head end, bottom view)

Use equalisation connector if:

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

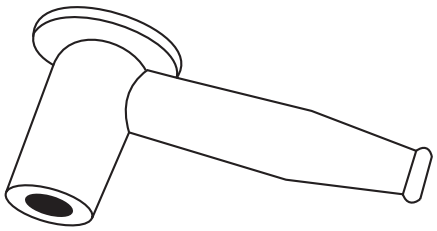


Fig. Potential equalisation connector - female

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.

10.3 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 Anti-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 (Sprint 200 without scales and without i-Drive Power)“ on the page 137 or see „26 Disposal (Sprint 200 with scales or with i-Drive Power)“ on the page 138).

10.4 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 60).
- ► 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.

10.4.1 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 200 stretcher!

WARNING!
Siderails in down position can cause patient‘s fall from the Sprint 200 stretcher during transport of the Sprint 200 stretcher!

Transport Position of the Sprint 200 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 200 with scales or with i-Drive Power
► handles intended for transport (Foldable Handles or Fixed Handles or IV&Drive Infusion Stands/Pushing Handles) raised in working position

10.5 Firmware (only Sprint 200 with scales or with i-Drive Power)

**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 (only Sprint 200 with scales or with i--Drive Power)

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 200 with scales or with i-Drive Power avoid squeezing the cable between parts of the Sprint 200 with scales or with i-Drive Power!

WARNING!
An additional multiple socket-outlet or extension cord shall not be connected to the Sprint 200 with scales or with i-Drive Power!

WARNING!
It is not possible to use Bed Exit Alarm Monitoring when Sprint 200 with scales is disconnected from the mains power! No Bed Exit Alarm can be triggered when Sprint 200 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 200 with scales or with i-Drive Power and the wall where the Power Supply Cord is connected to the mains.

Attachment plug is means of connecting and disconnecting Sprint 200 with scales or with i-Drive Power from the mains.

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.

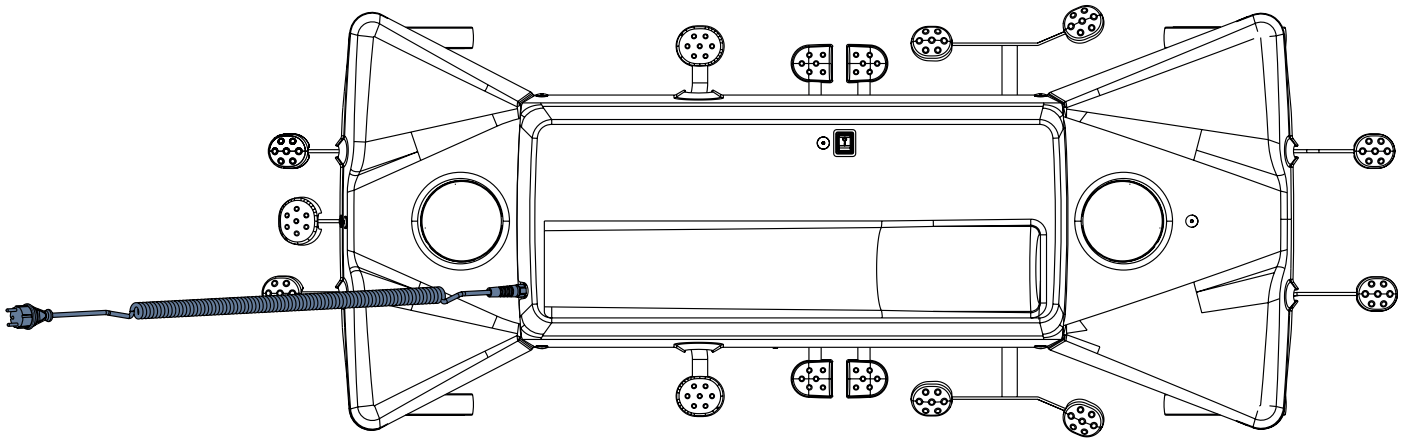


Fig. Power Supply Cord on the head end of the Sprint 200 with scales or with i-Drive Power

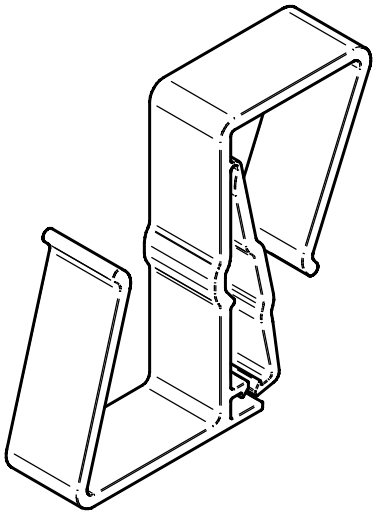


Fig. Hook for hanging Power Supply Cord

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 200 with scales or with i-Drive Power!

WARNING!
Power Supply Cord must not be wound around the Accessory Rail at head end of the Sprint 200 with scales or with i-Drive Power before and when the Power Supply Cord is connected to the mains power!

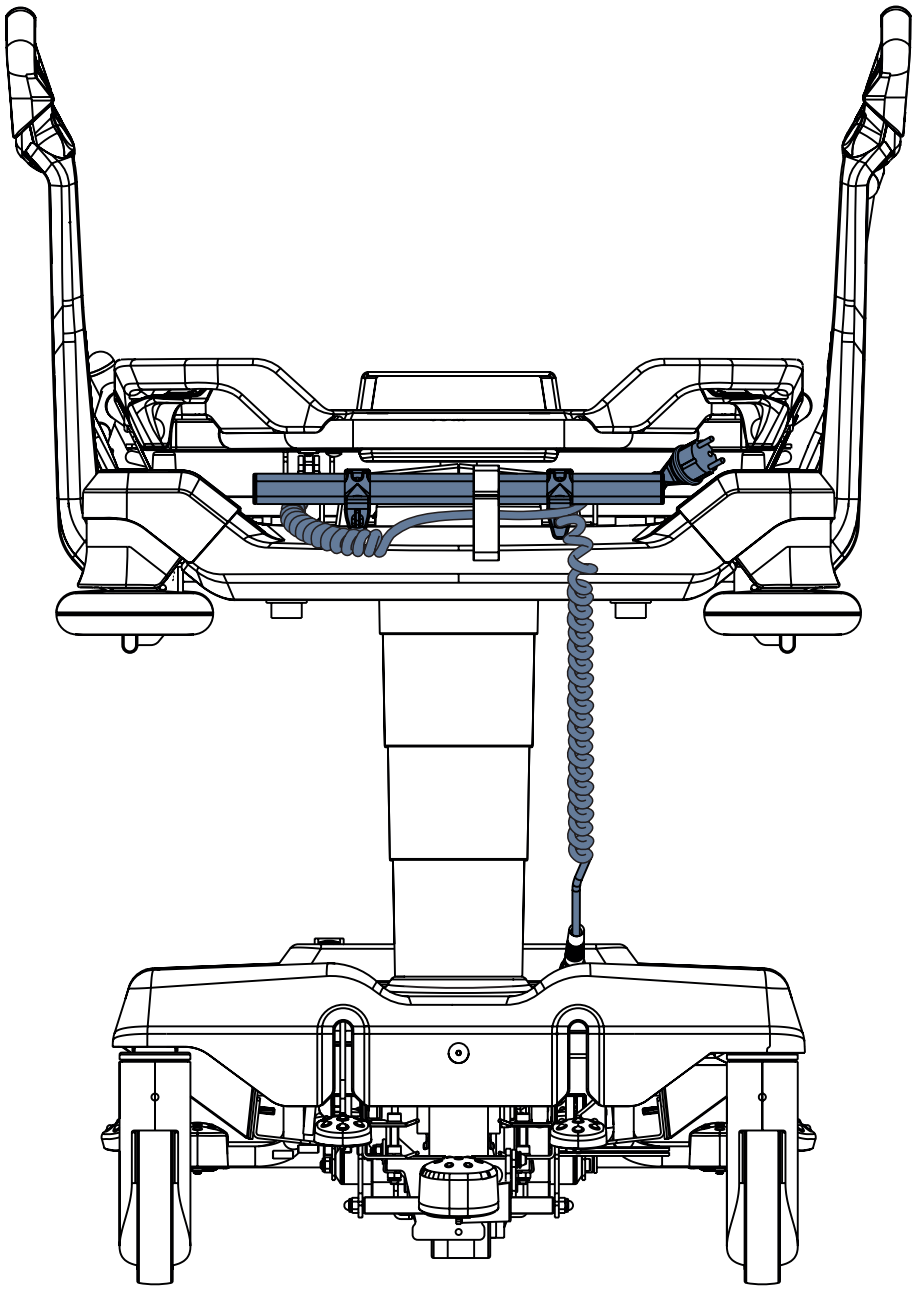


Fig. Power Supply Cord leading from the undercarriage cover and wound around the Accessory Rail

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 200 with scales or with i-Drive Power as on the picture above.

To connect Sprint 200 with scales or with i-Drive Power to the mains power:

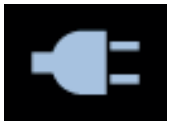
► Unwind the whole Power Supply Cord from the Accessory Rail at head end of the Sprint 200 with scales or with i-Drive Power.
► Connect the attachment plug of the Power Supply Cord to the mains power.

To disconnect Power Supply Cord from the Sprint 200 with scales or with i-Drive Power:

► Disconnect the Power Supply Cord from the mains.

11.2 Indication of the stretcher connected to the mains (only Sprint 200 with scales)

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

Indicator	Meaning
	Sprint 200 with scales is connected to the mains.
	Sprint 200 with scales is disconnected from the mains.

12 Batteries (only Sprint 200 with scales)

12.1 Batteries of the scales system

WARNING!
Hospital technician is authorised to remove the discharged batteries and to insert new 4 batteries according to these instructions for use! Use only type of the batteries mentioned in the Electrical Specifications (AA LR6 1,5V)! Replace the 4 batteries every 2 years!

WARNING!
Risk of damaging the product due to incorrect storage!
► Remove the 4 batteries from the Battery Box before storage of the Sprint 200 with scales!

WARNING!
Do not charge removed battery (type LR6 is non-rechargeable)!

WARNING!
Risk of damaging the product due to incorrect maintenance!
► Only authorised and trained service technician is allowed to change the fuse in the Battery Box!

Sprint 200 with scales is delivered with 4 batteries in the Battery Box under the Seat Section.

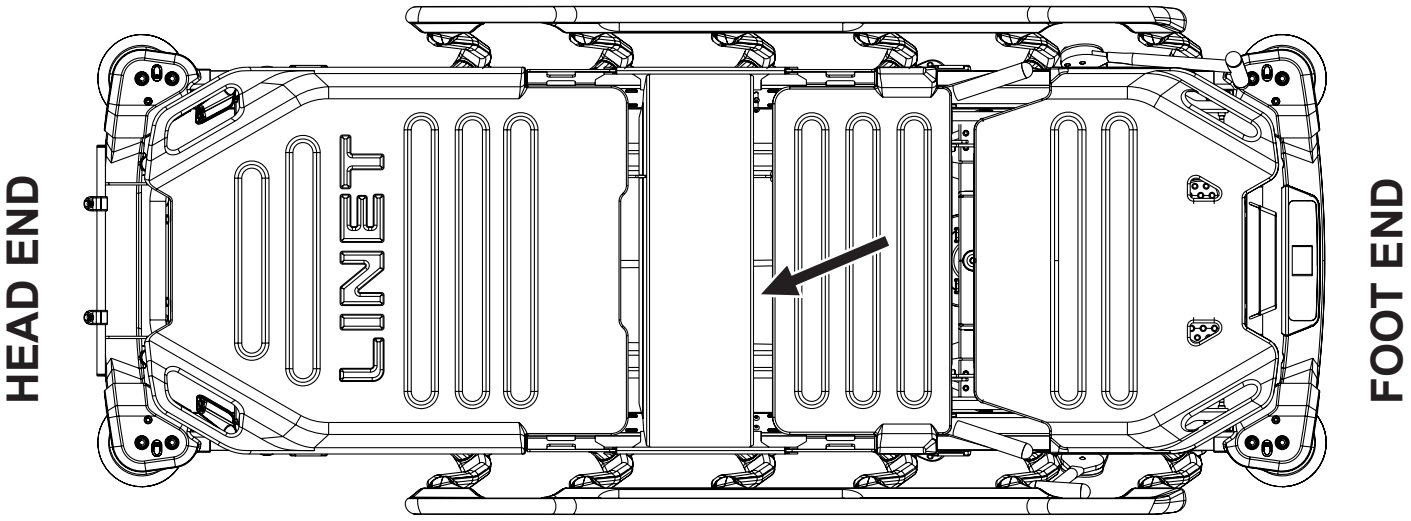


Fig. Position of the Battery Box under the Seat Section of Sprint 200 with scales

12.2 Battery Activation

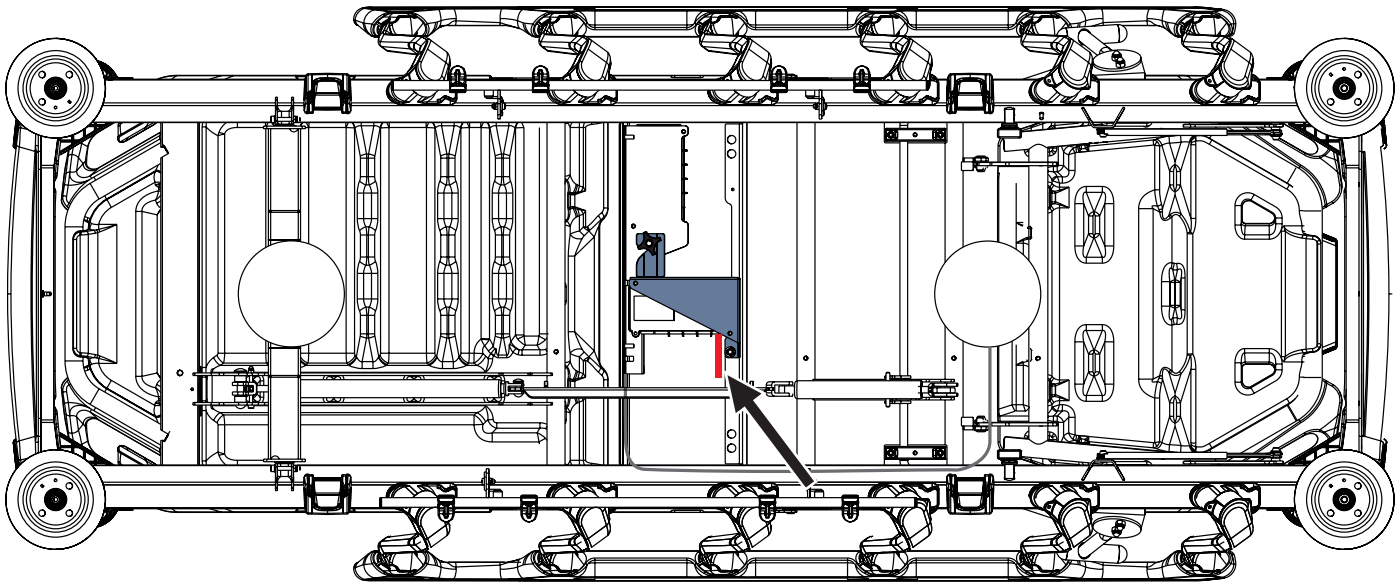


Fig. Battery Box with Battery Isolating Foil under the Seat Section (bottom view)

To remove Battery Isolating Foil:

► Remove the Thighrest plastic cover.
► Gain access to the Battery Box on the right side of the Battery Box Holder under the seat section.
► Remove a corresponding plug from the Battery Box to make the Battery Isolating Foil accessible.
► Remove the Battery Isolating Foil from the Battery Box by pulling the Battery Isolating Foil.
► Check if the Battery Isolating Foil is complete and undamaged. If the Battery Isolating Foil is damaged, contact the manufacturer's service department immediately.
► Insert the plug back to the side of the Battery Box.
► Insert the Thighrest plastic cover back to the Thighrest.

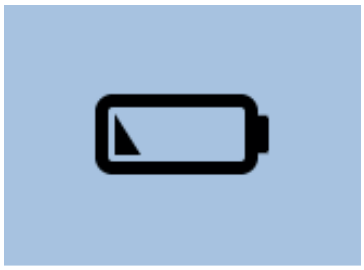
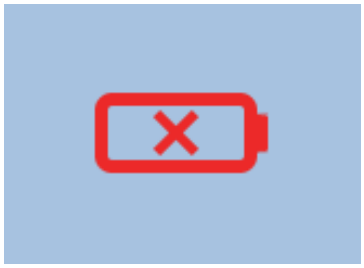
NOTE The Battery Isolating Foil is sharp-edged. Remove it carefully to avoid cuts or personal injury.

12.2.1 Battery Capacity Status Indicators

Battery Capacity Status	Indication
Capacity 100% - 83%	
Capacity 82% - 50%	
Capacity 49% - 16%	
Low Batteries (Capacity 15% - 4%)	
Critically Discharged Batteries (Capacity 3% or less)	 

12.2.2 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 activates the Bed Exit Alarm Monitoring when battery is low.	Connect the Sprint 200 stretcher to the mains power and activate the Bed Exit Alarm Monitoring. Replace the 4 batteries.
	Operator activates the Bed Exit Alarm Monitoring when battery is critically discharged or disconnected.	Connect the Sprint 200 stretcher to the mains power and activate the Bed Exit Alarm Monitoring. Replace the 4 batteries.

12.3 Change of the 4 batteries in Battery Box

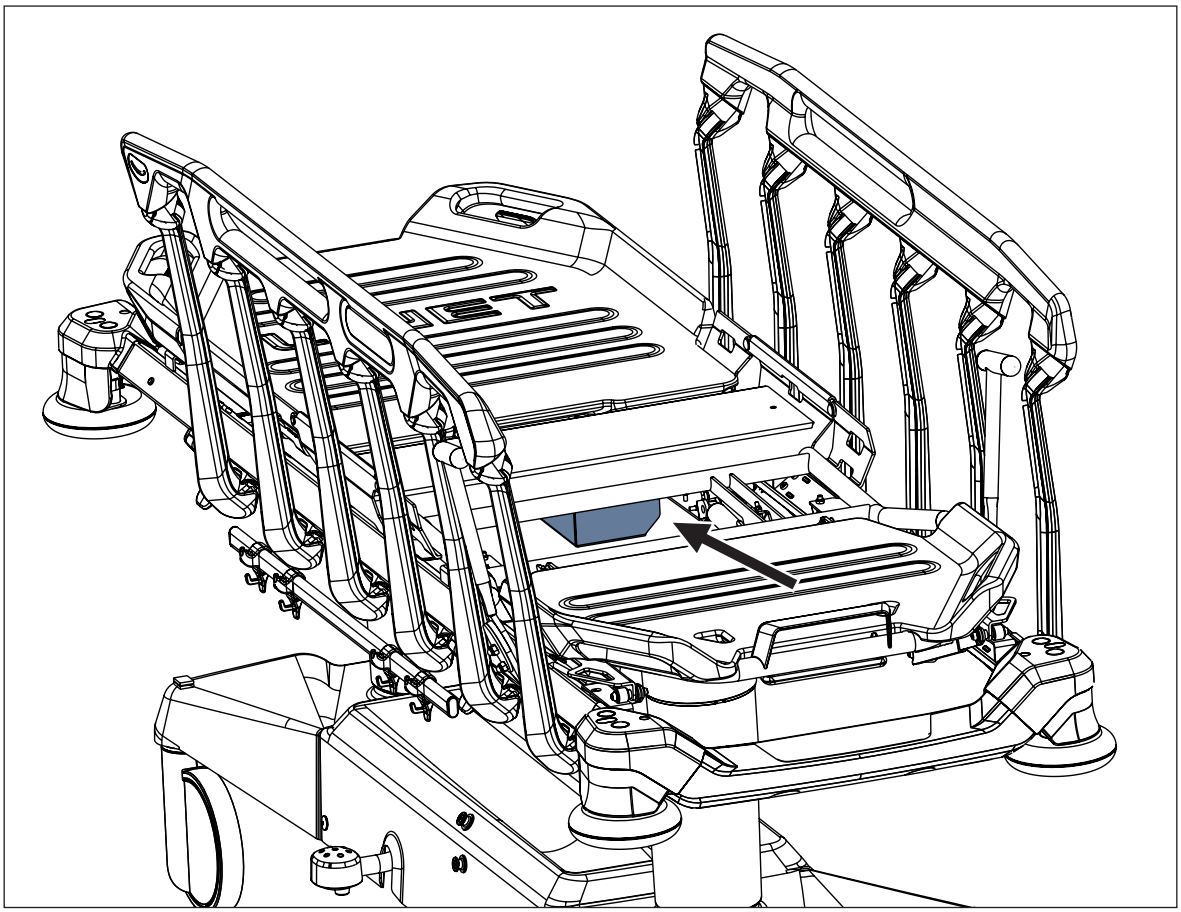


Fig. Fixation of the Battery Box under the Seat Section (view from Foot End)

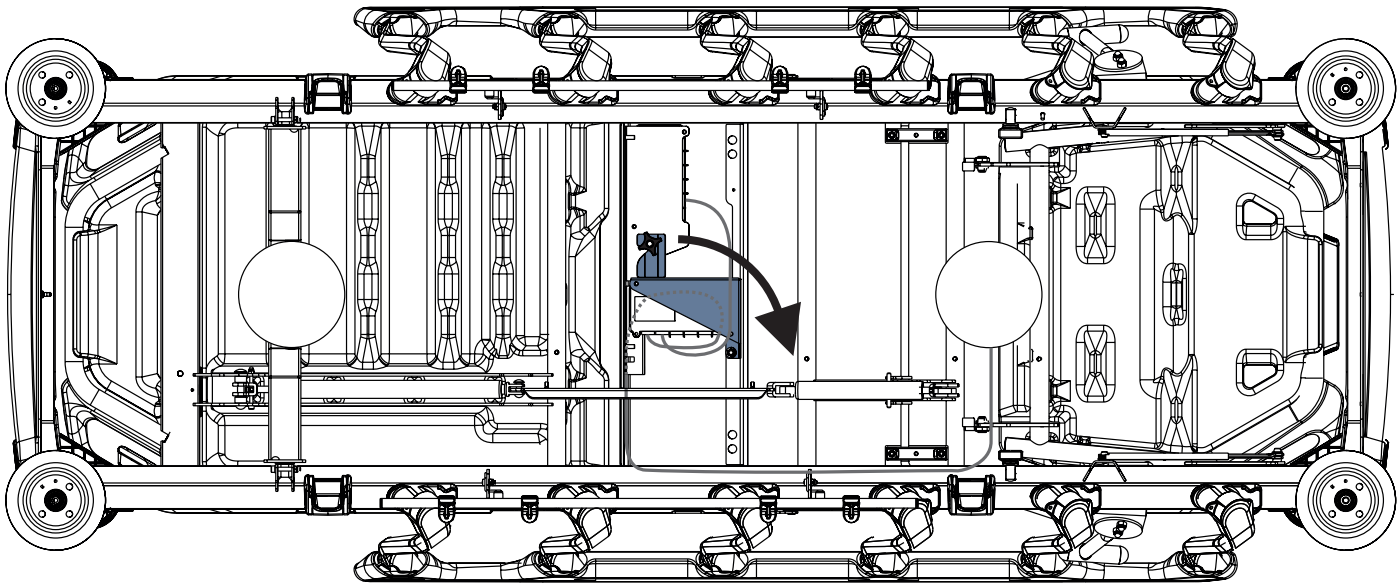


Fig. Tipping the Battery Box Holder out (bottom view)

To change the 4 batteries in the Battery Box:

- ► Remove the Thighrest plastic cover.
- ► Lift the Thighrest up to facilitate the access to the Battery Box Holder under the Seat Section.
- ► Unlock the Battery Box Holder by turning the star-like fixing element on the left side of the Battery Box Holder.
- ► Tip the Battery Box Holder out to the right side to make the Battery Box accessible.
- ► Unscrew the 4 screws in the Battery Box Cover by the corresponding screwdriver to unlock the Battery Box Cover.
- ► Replace the 4 batteries with new 4 batteries according to the picture on the right of the positions for batteries.
- ► Close the Battery Box by the Cover.
- ► Lock the Battery Box Cover by tightening the 4 screws.
- ► Give the Battery Box Holder back to its original position under the Seat Section.
- ► Lock the Battery Box Holder by turning the star-like fixing element.
- ► Insert the Thighrest plastic cover back to the Thighrest.
- ► Adjust the Thighrest as needed.

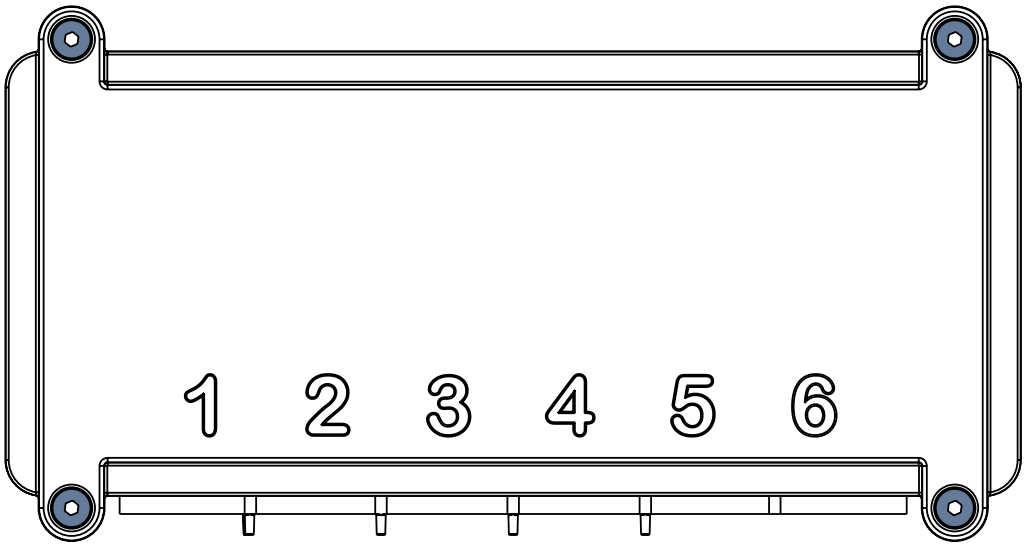


Fig. Battery Box with Cover fixed with 4 screws

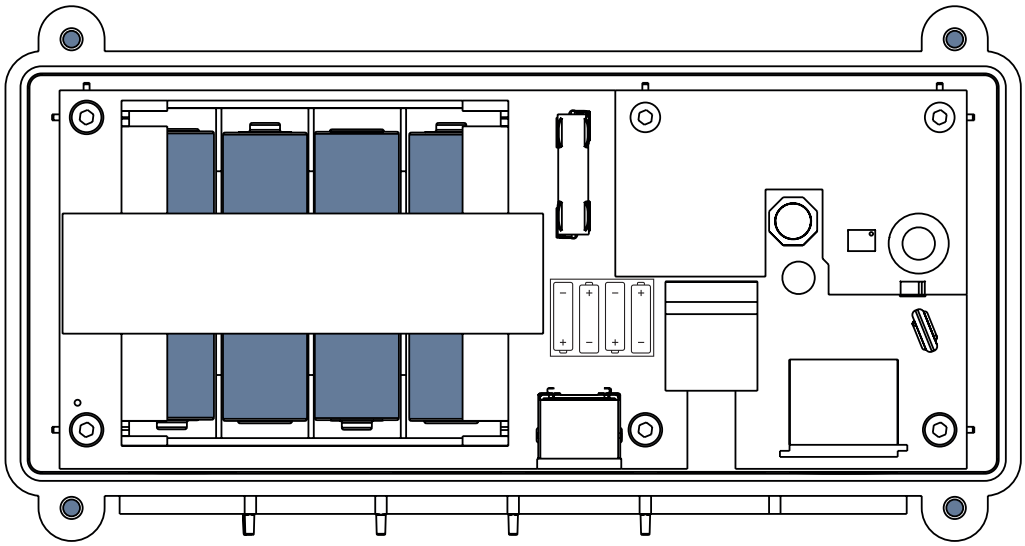


Fig. Opened Battery Box with 4 batteries

13 Batteries (only Sprint 200 with i-Drive Power)

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 below the Mattress Support Platform frame before adjusting the stretcher.

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!

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

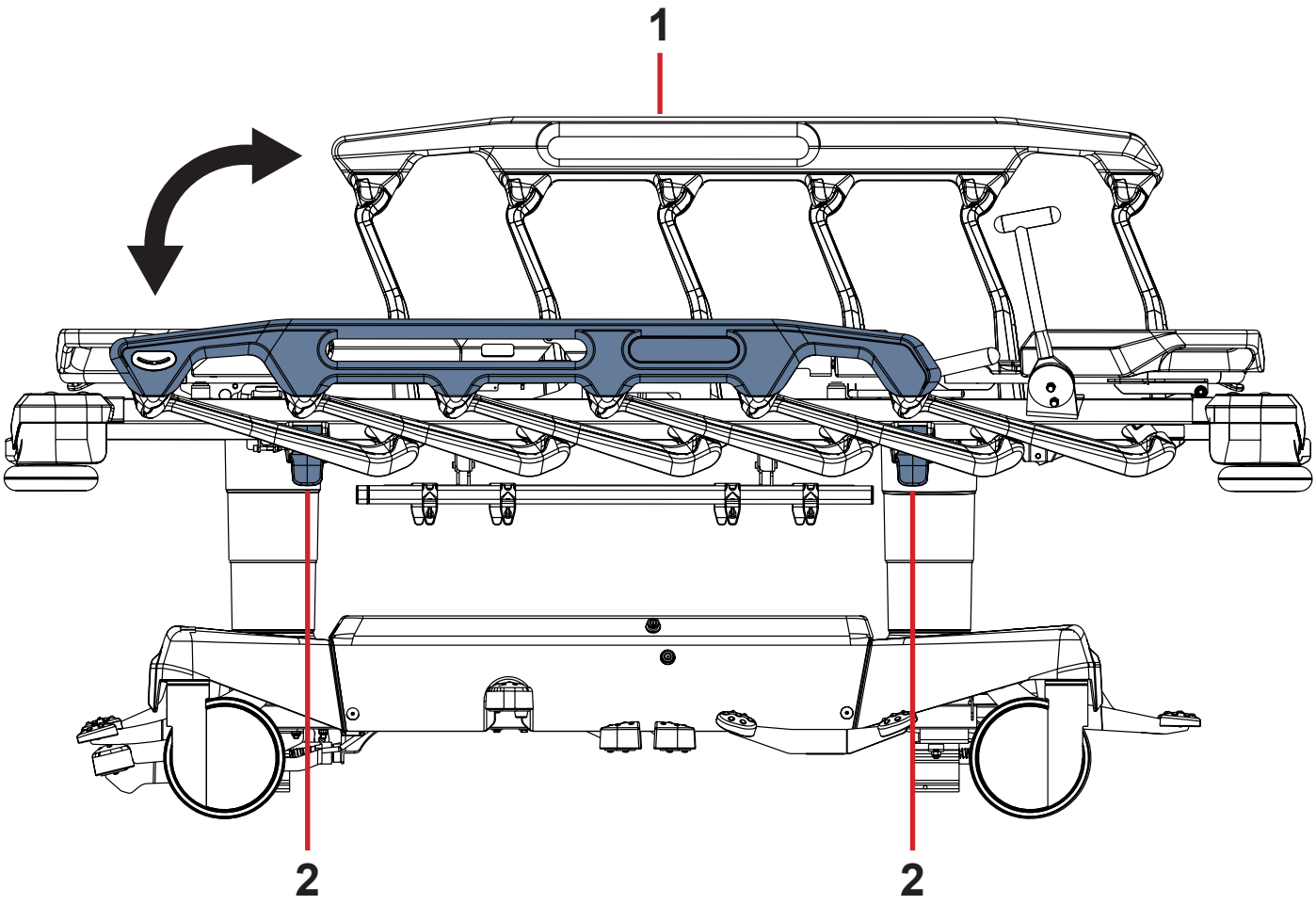


Fig. Manipulation with Collapsible Siderail

1. Siderail Handle
2. Siderail Release Lever

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.

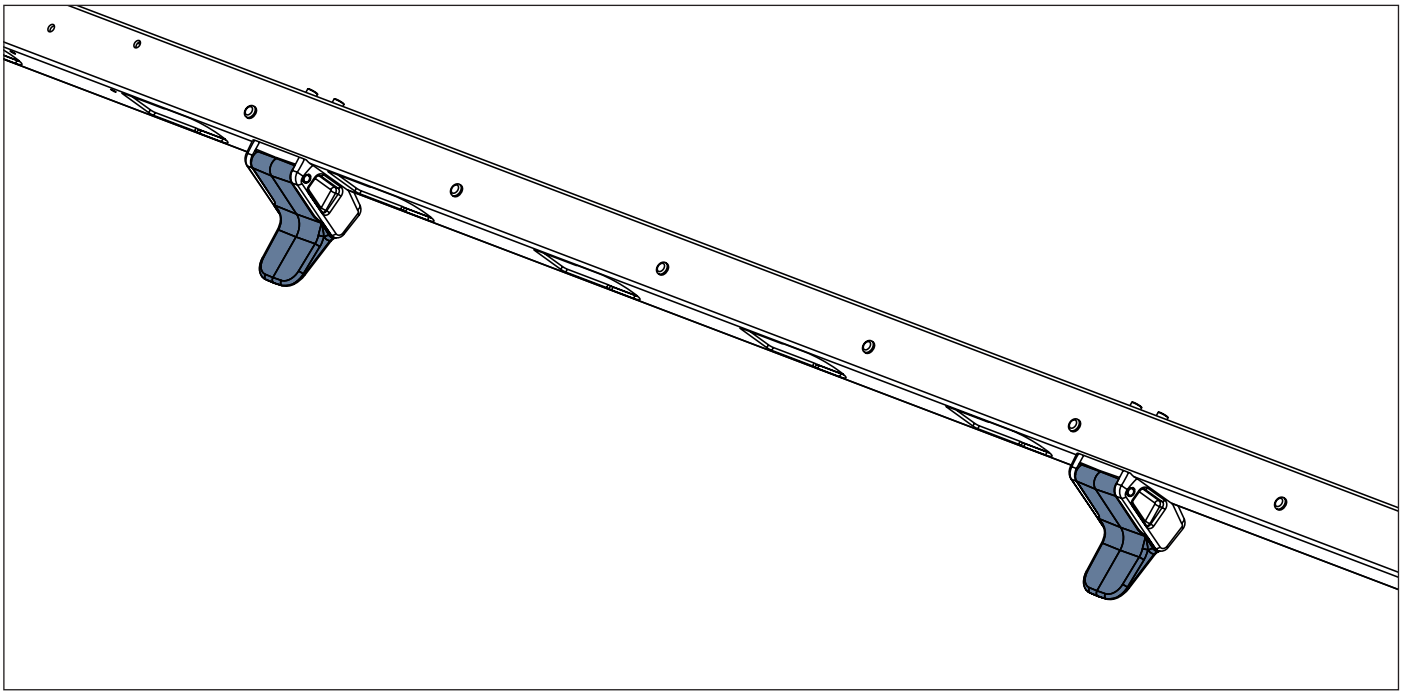


Fig. Positions of both Siderail Release Levers when the siderail is locked

SIGNALLING THE UNLOCKED SIDERAIL

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

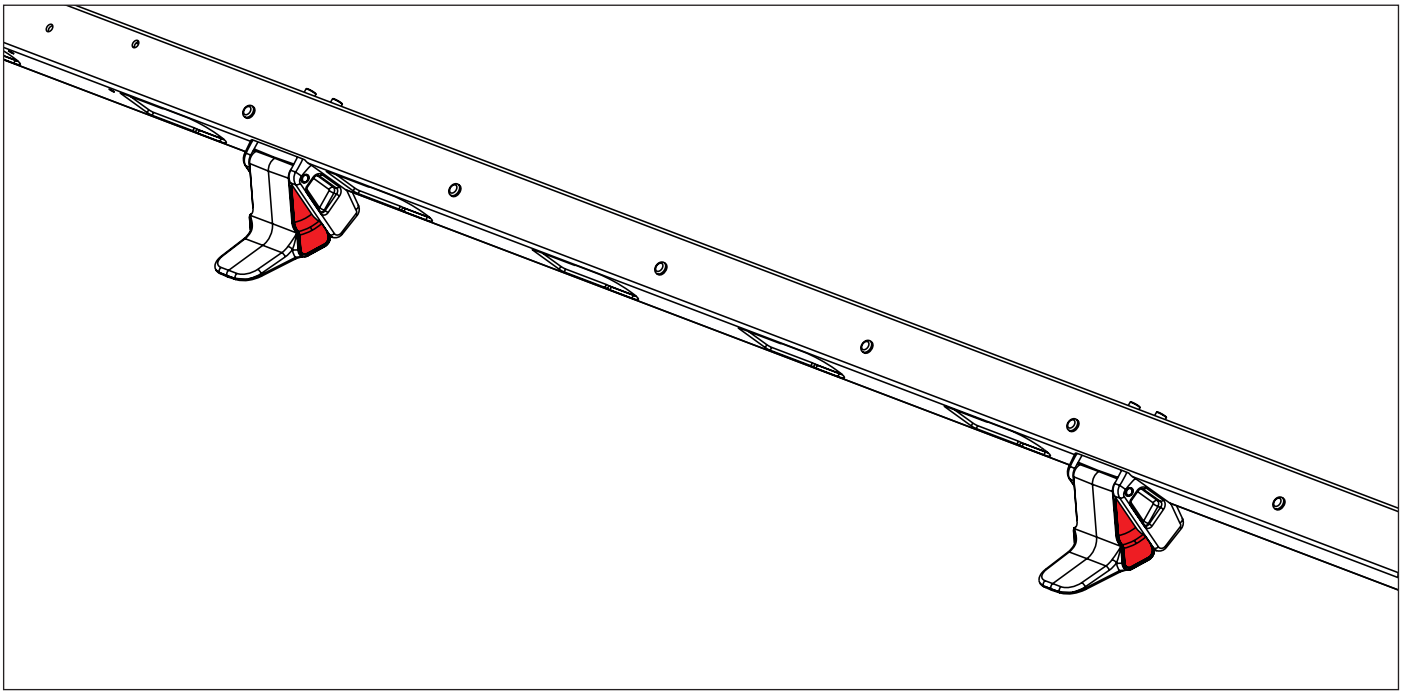


Fig. Positions of both Siderail Release Levers when the siderail is unlocked

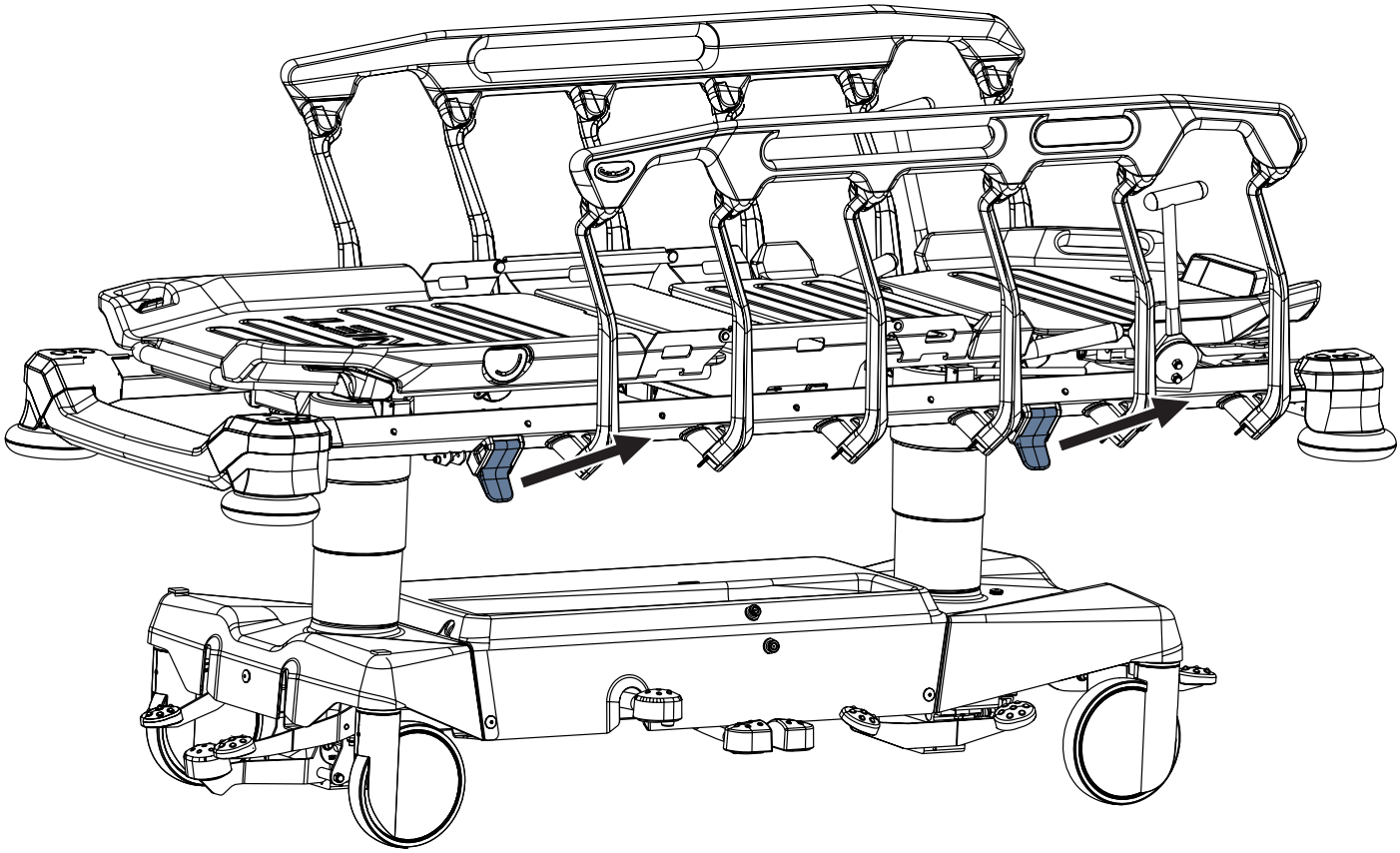


Fig. Release of the siderail at head end and foot end

14.2 Castor Control

CAUTION!
Material damage due to incorrect transport and involuntary movement!
- ► Ensure that the castors are braked prior to putting into service, removal from service and maintenance.
- ► Ensure that the castors are braked when the stretcher is occupied.
- ► Ensure that the castors are braked when the stretcher should not move.

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.

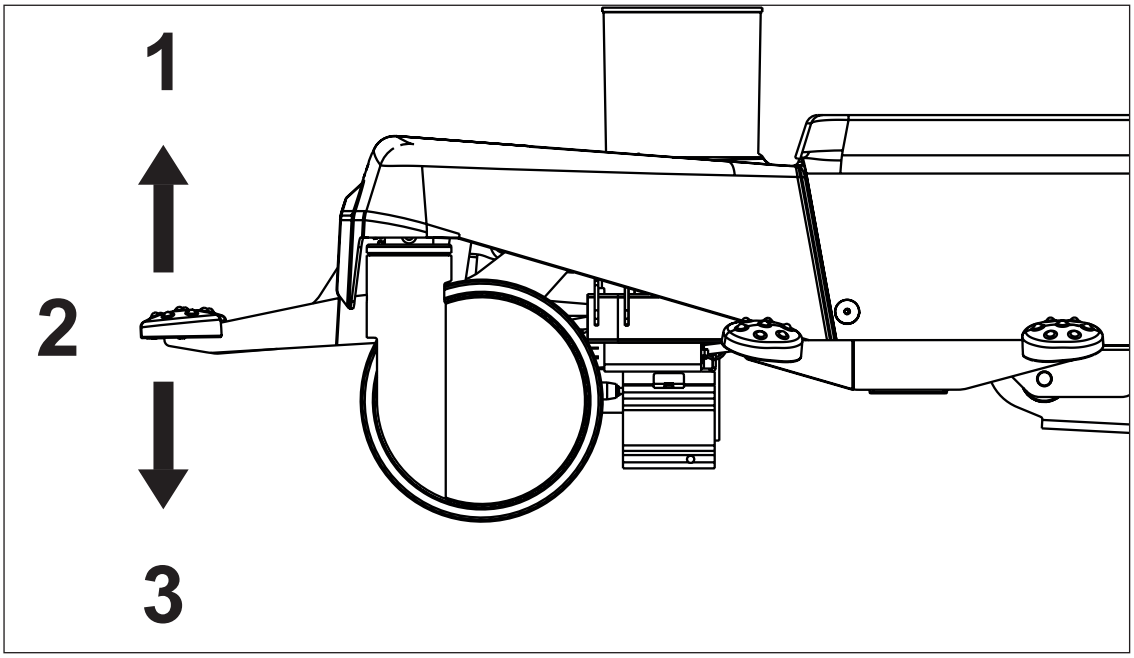


Fig. Three Pedal Positions (Green Drive Pedal)

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.

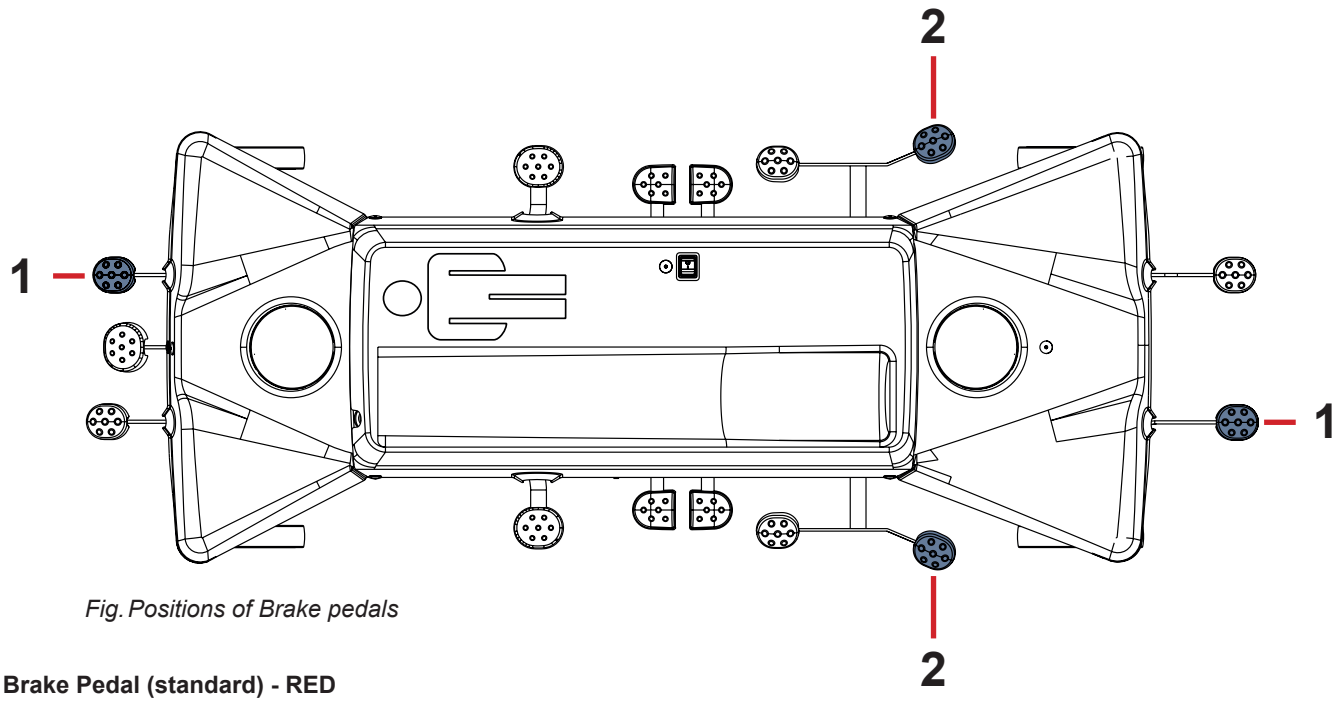


Fig. Positions of Brake pedals

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.

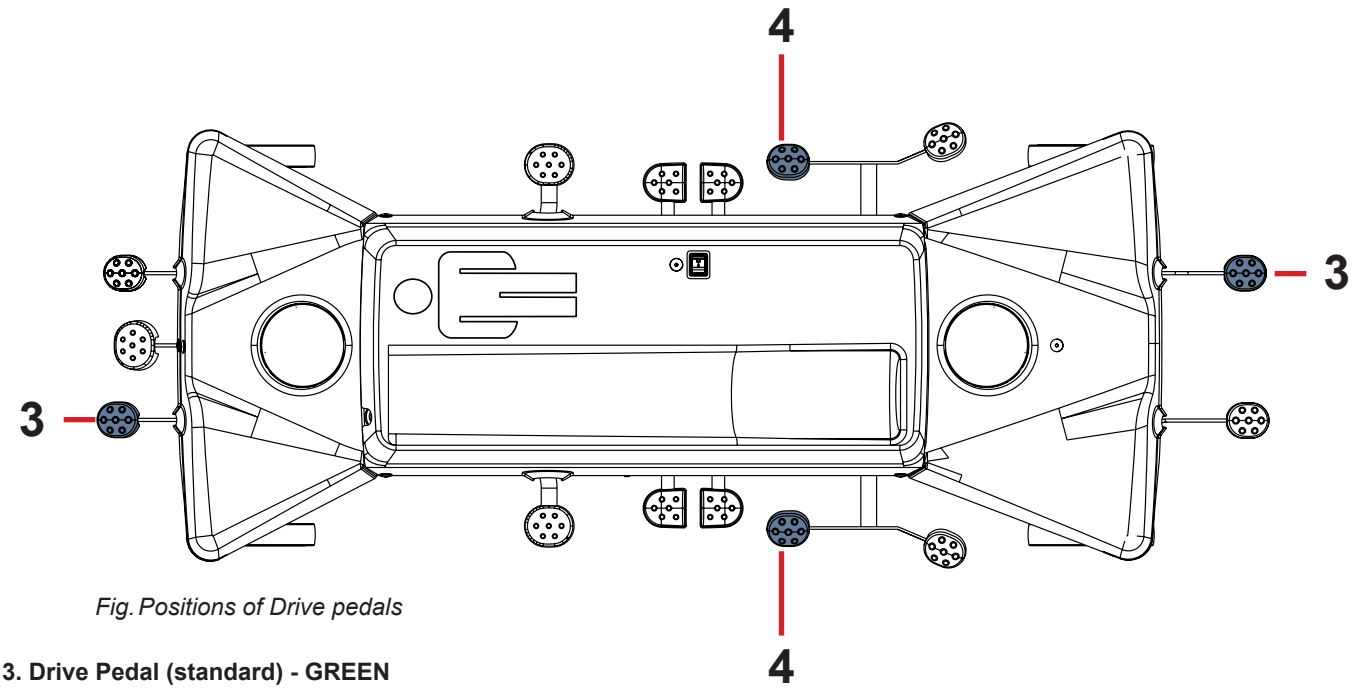


Fig. Positions of Drive pedals

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

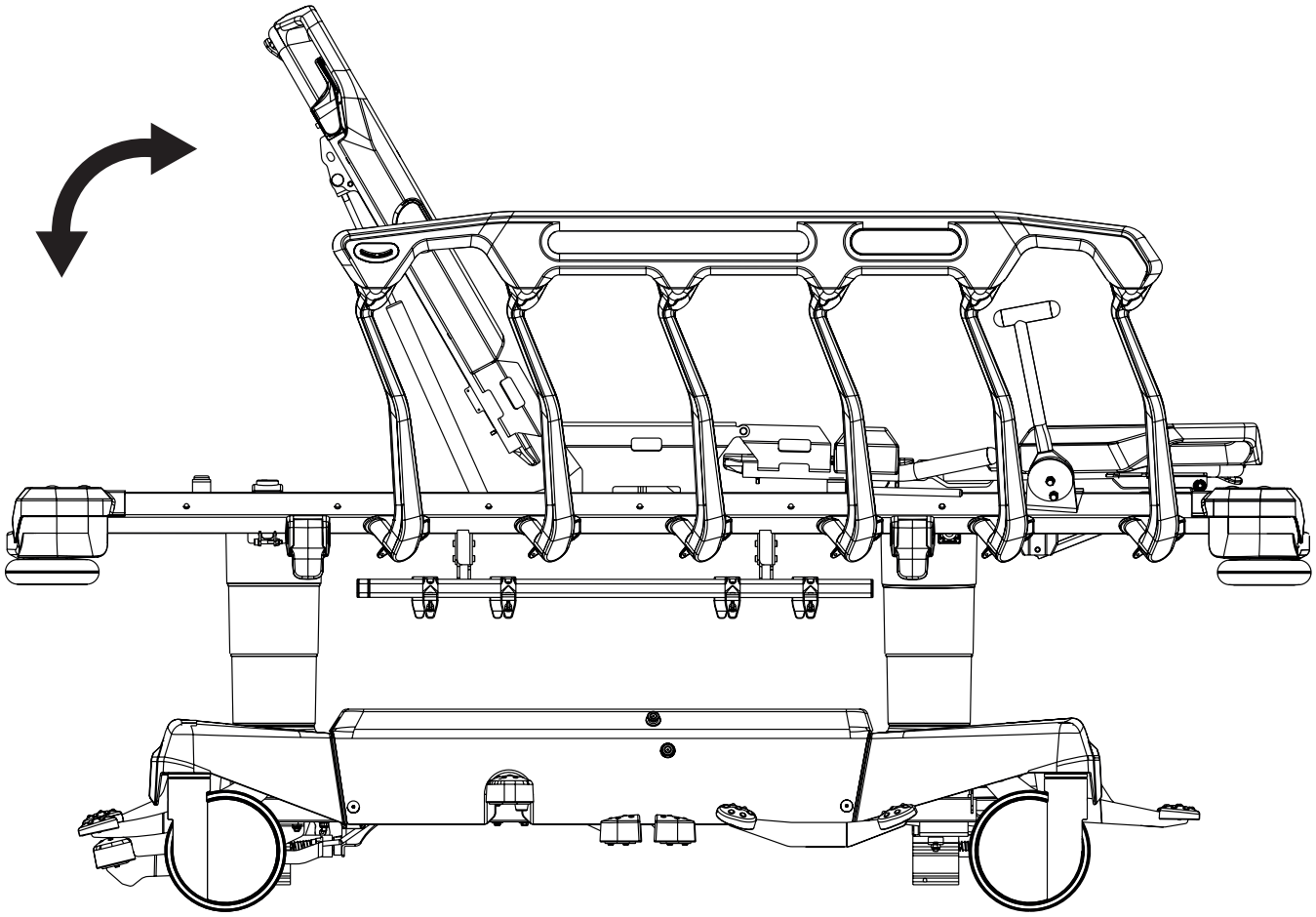
14.2.3 Unrestricted Movement

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 Stretcher Positioning

14.3.1 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!

To position Backrest:

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

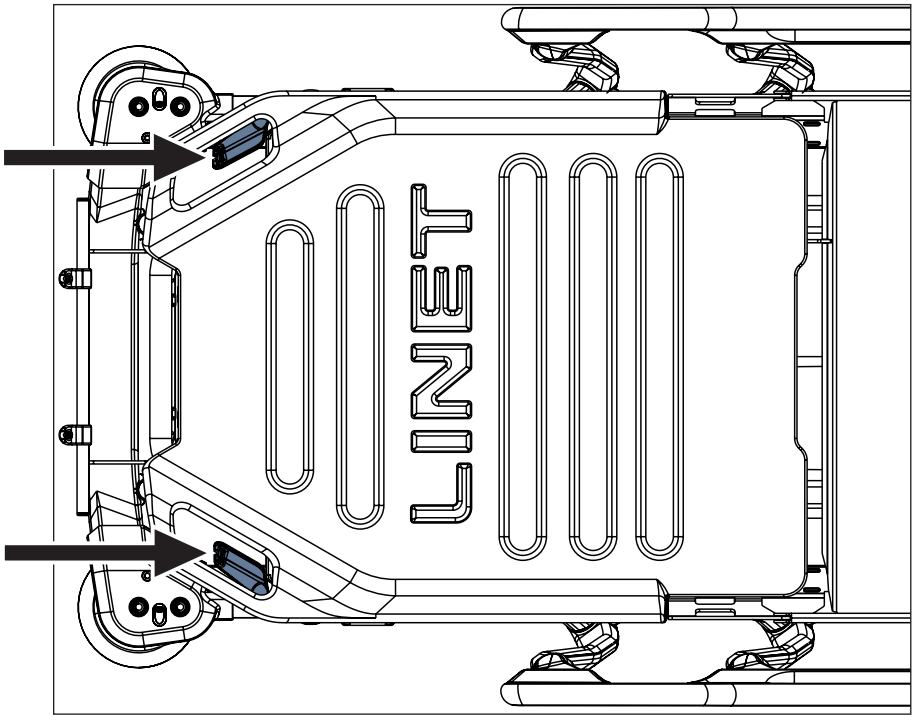


Fig. Positions of Backrest Release Handles

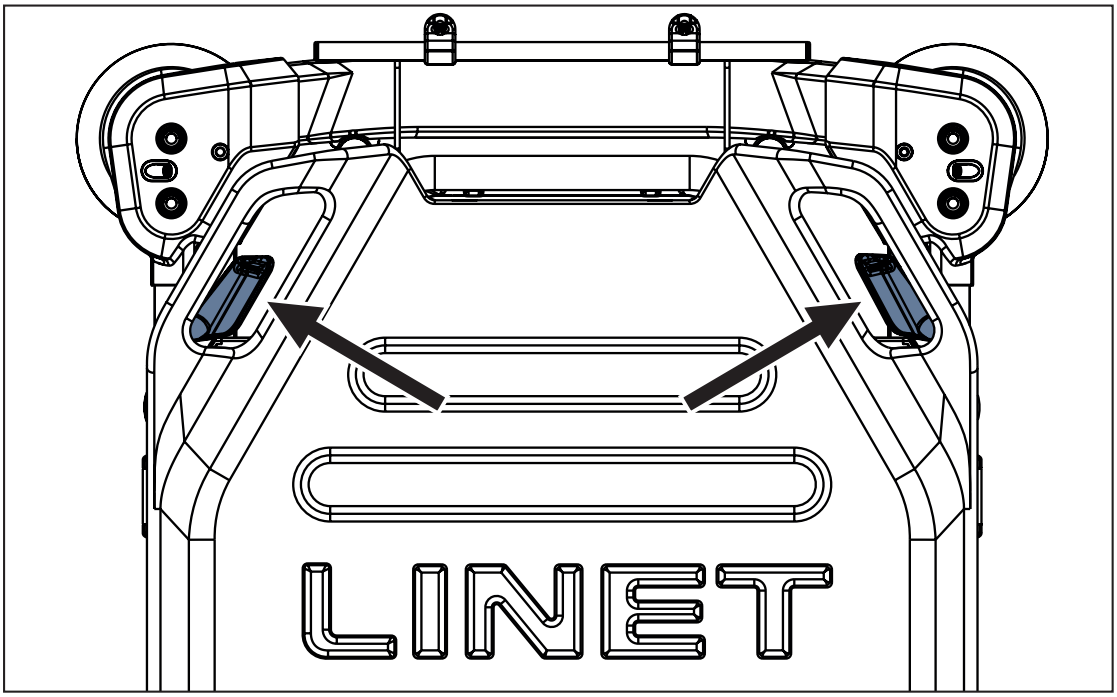
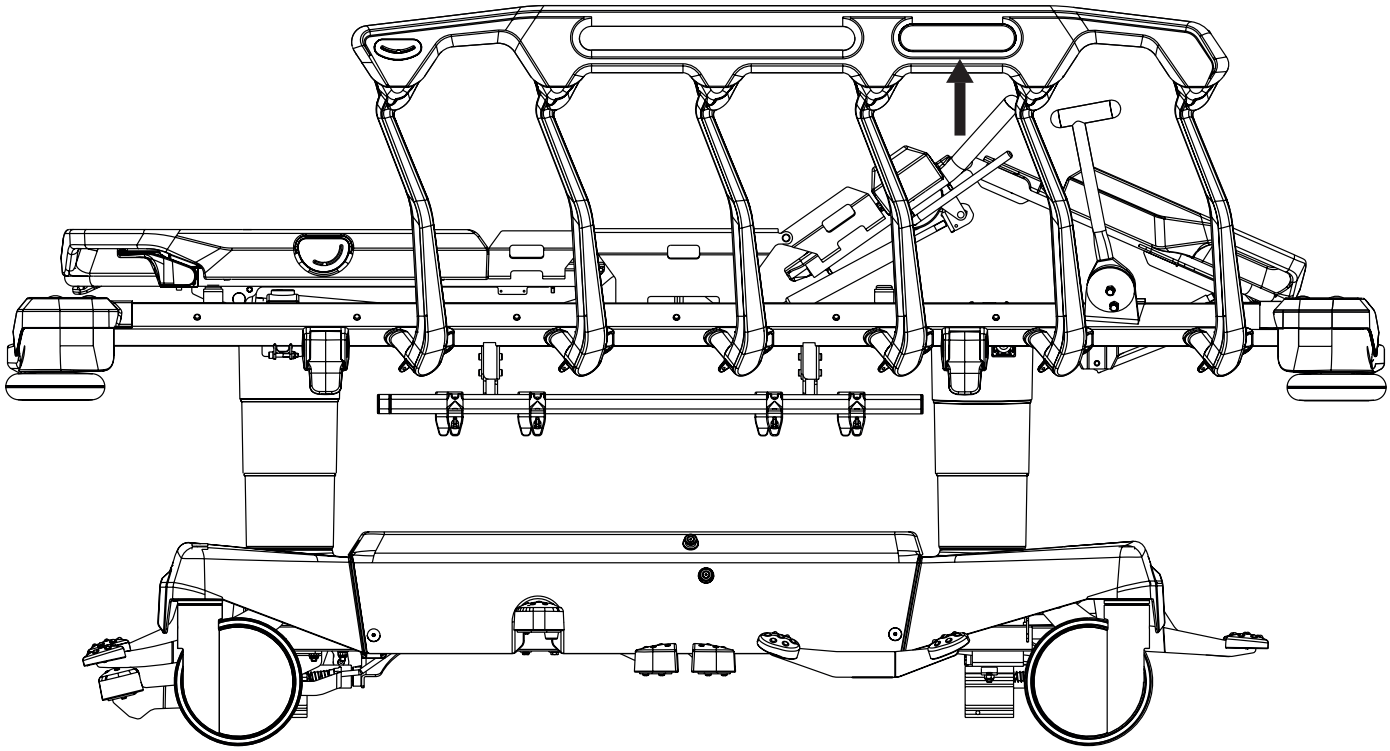


Fig. Manipulation with Backrest Release Handle

14.3.2 Thighrest (only 4-part Mattress Support Platform)



To lift Thighrest:

► grab Thighrest Handle, press Thighrest Latch and lift Thighrest Handle with Thighrest Latch until intended position is reached
► release the Thighrest Latch

To lower Thighrest:

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

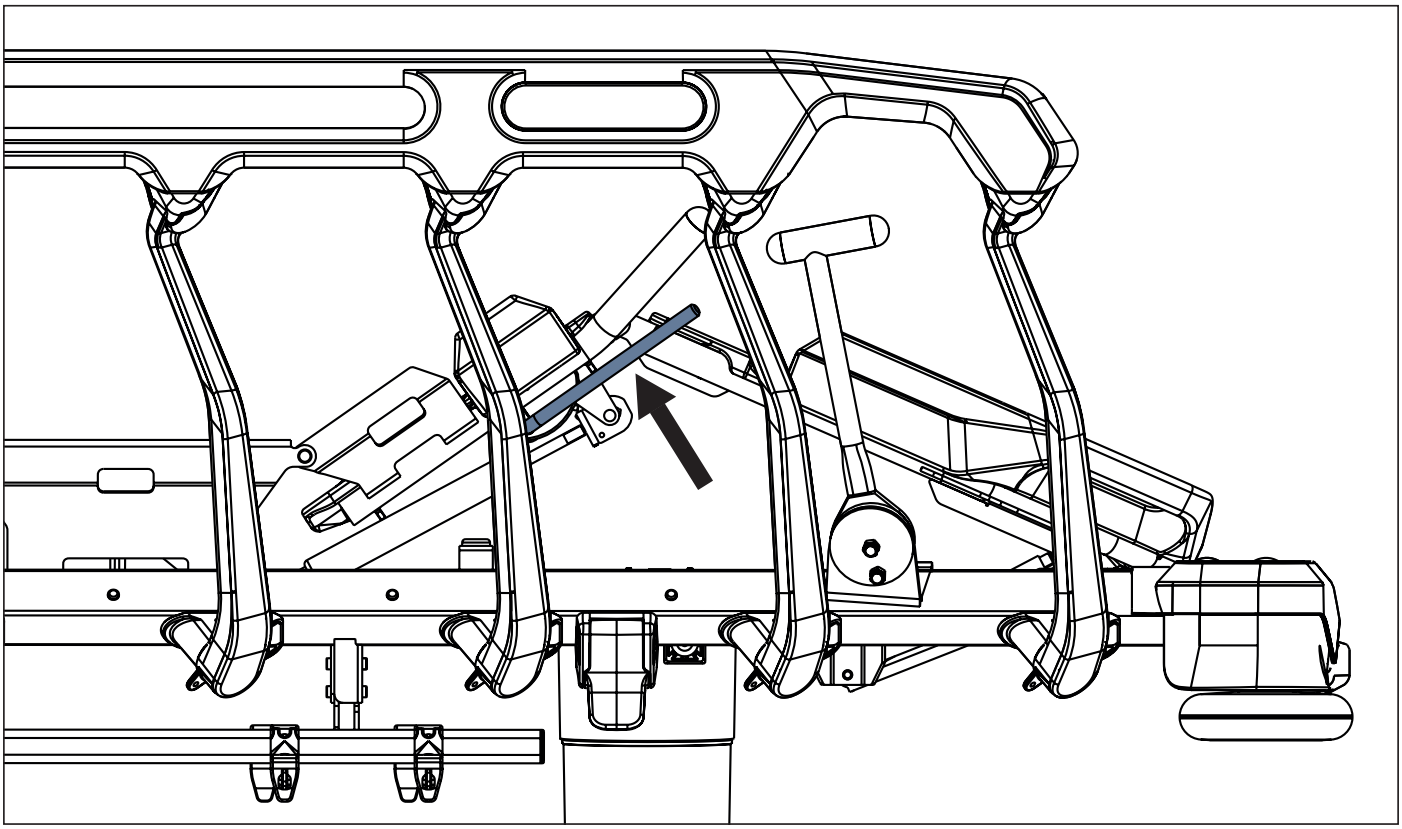
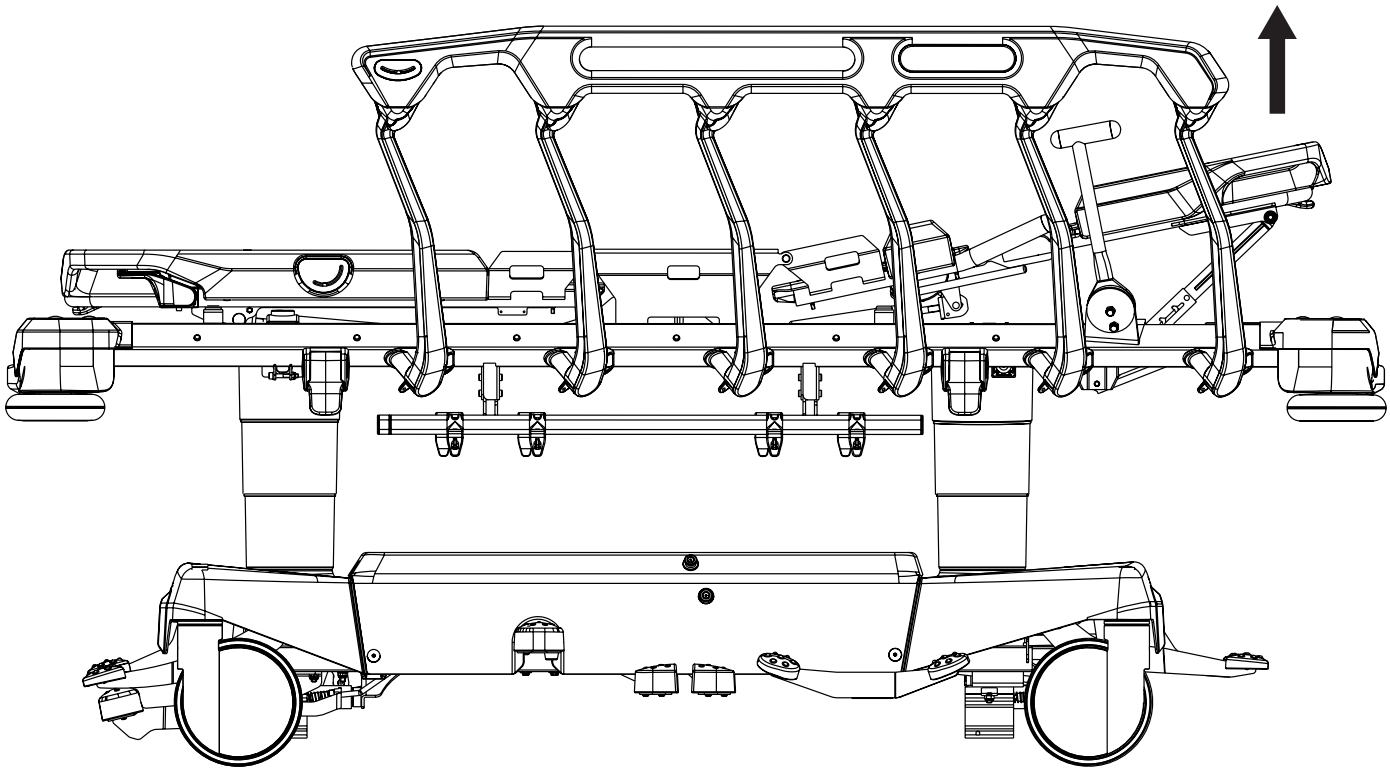


Fig. Position of Thighrest Latch

14.3.3 Calfrest (only 4-part Mattress Support Platform)



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
► ensure the catch fits in the ratchet-bar during slight lifting of the Calfrest

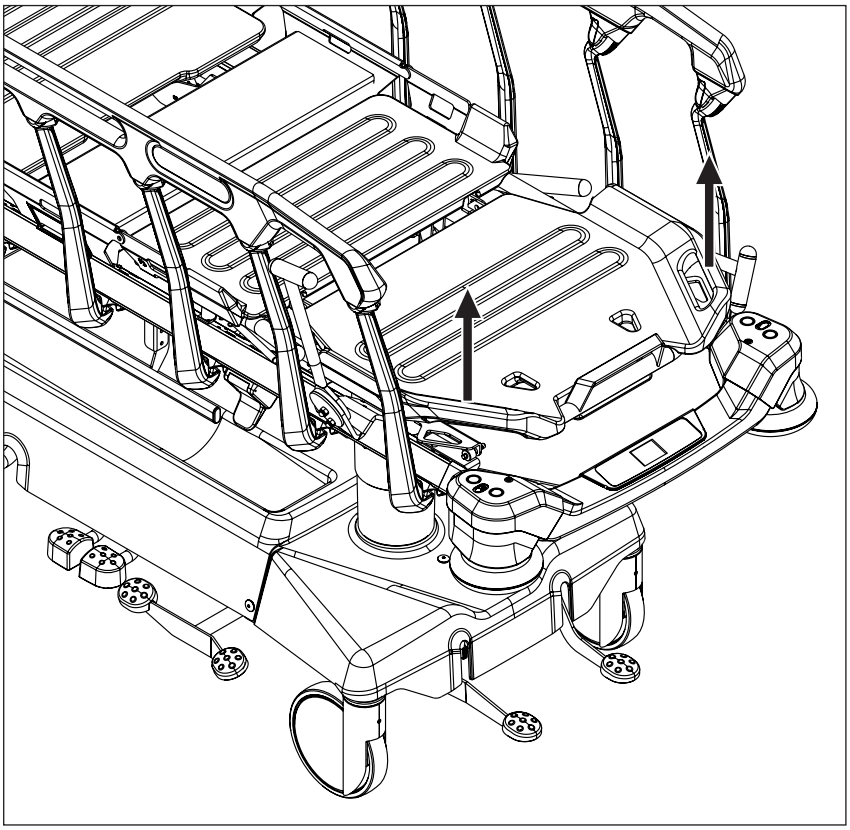


Fig. Calfrest Positioning

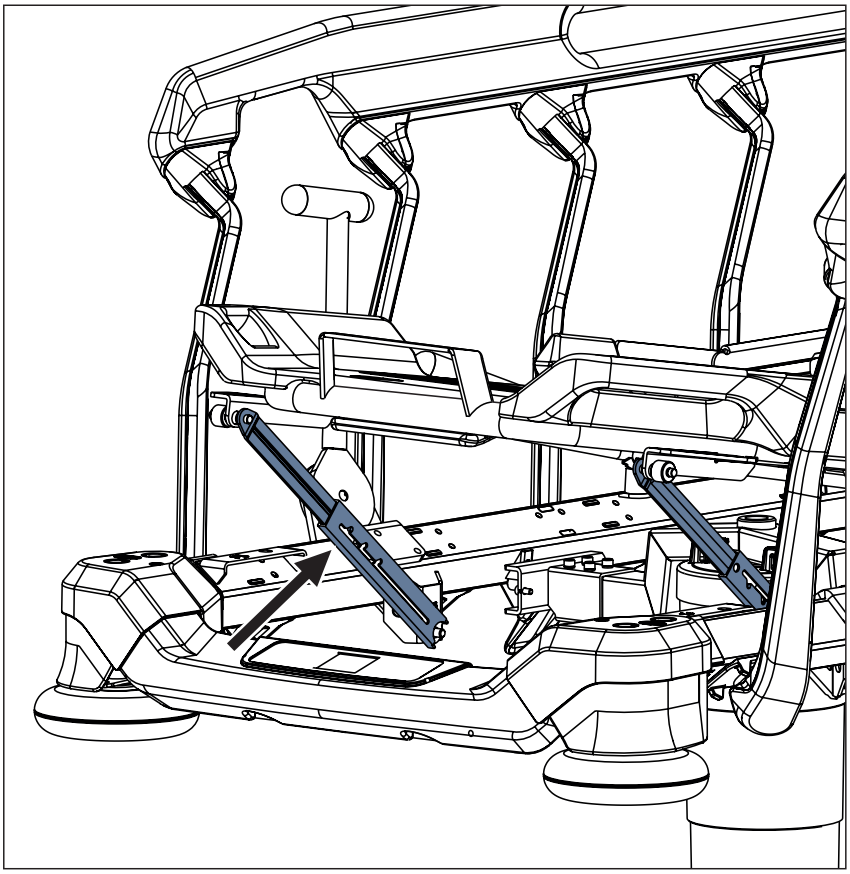
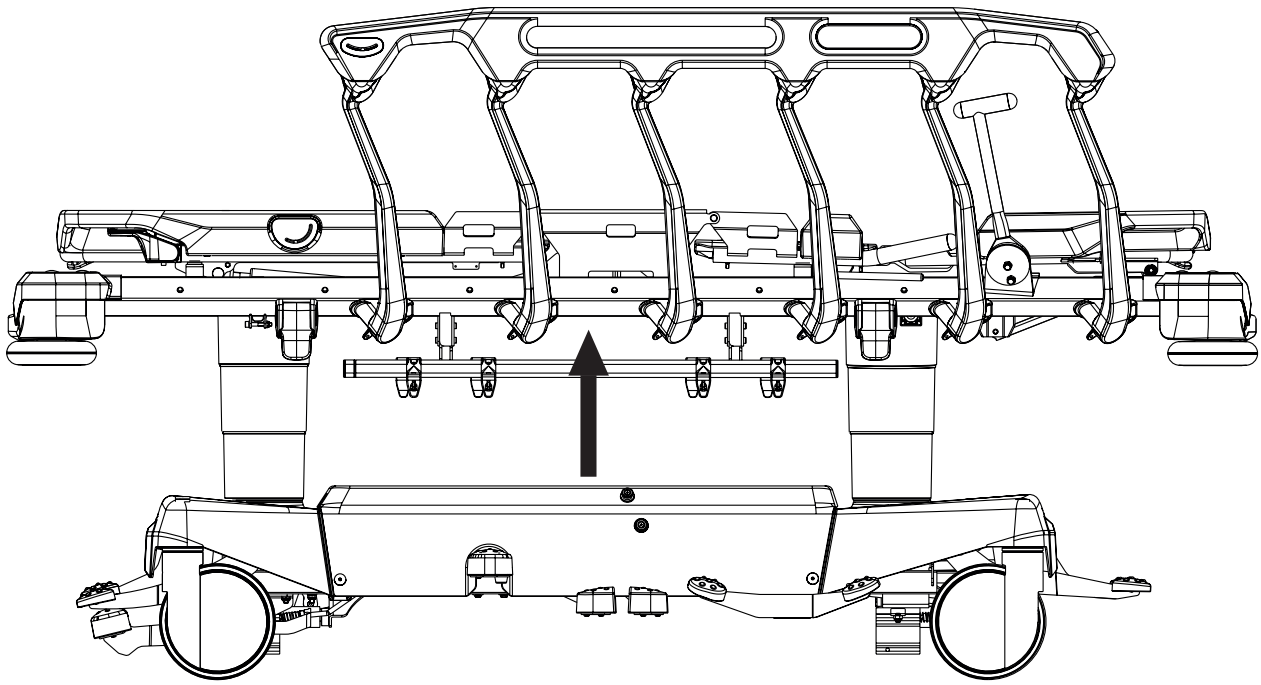


Fig. Catch in the ratchet-bar

14.3.4 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

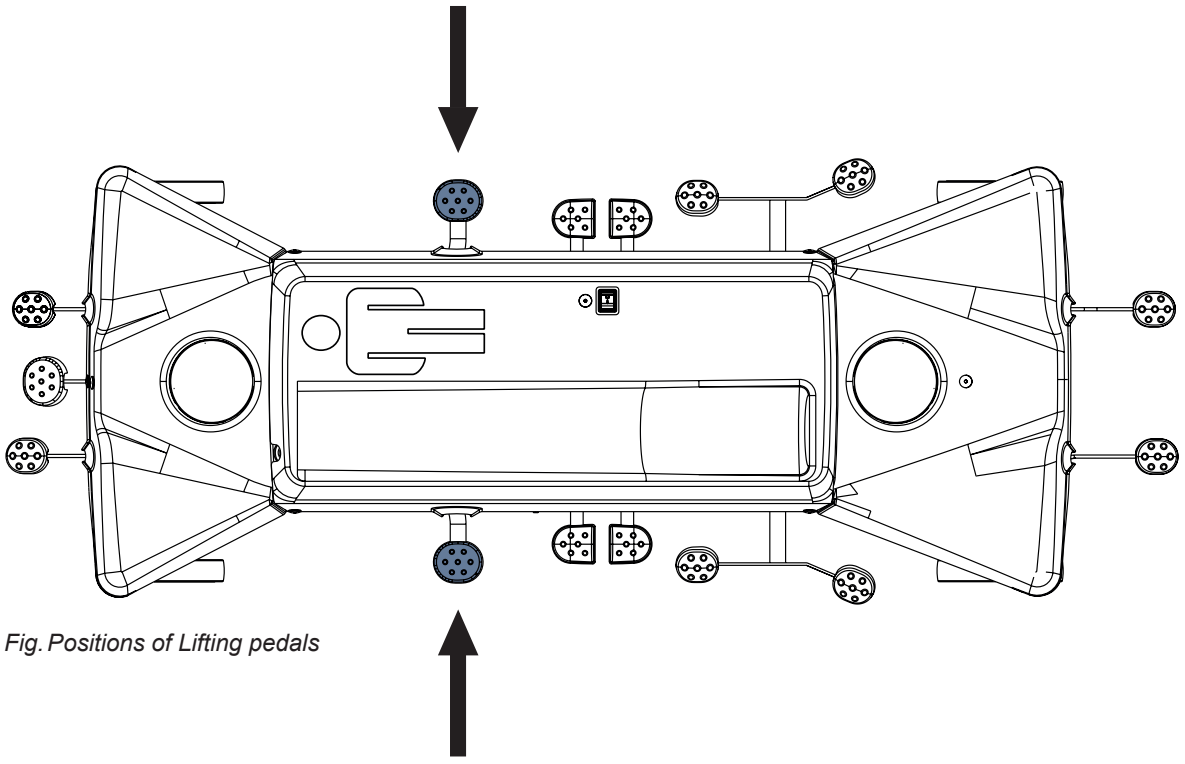
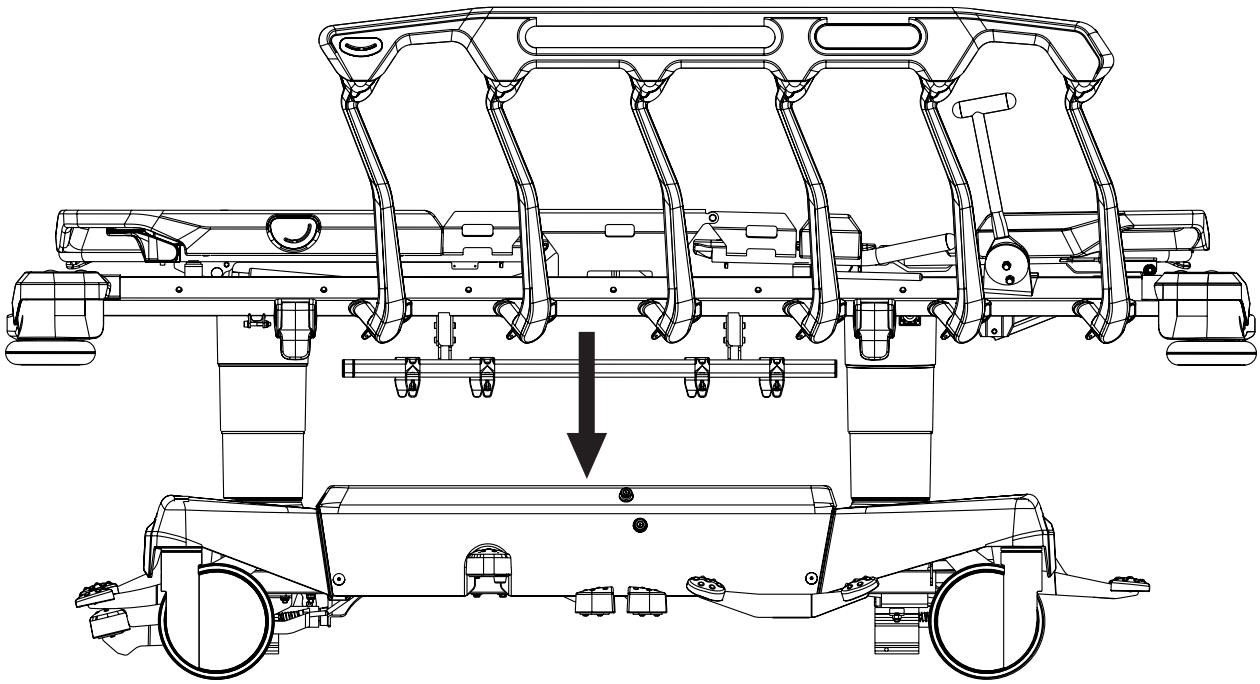


Fig. Positions of Lifting pedals

14.3.5 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.

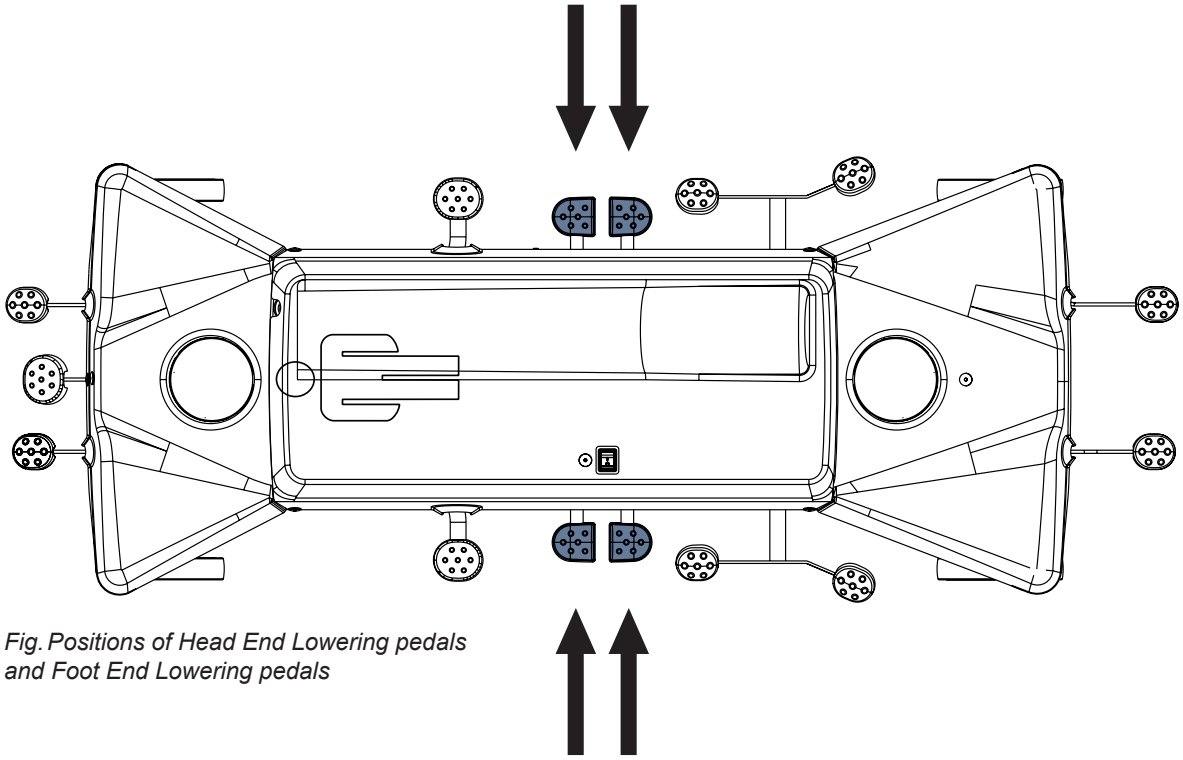
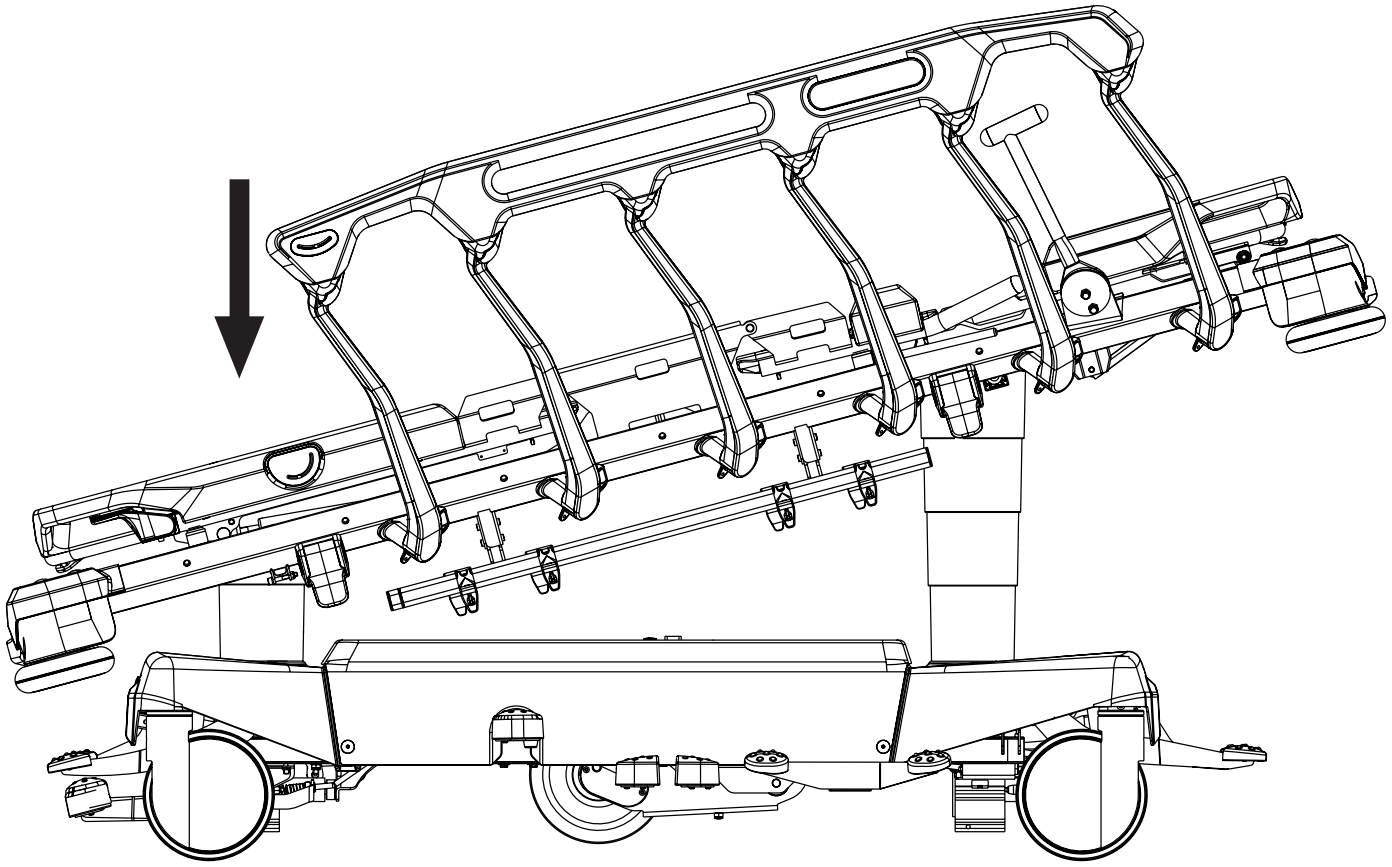


Fig. Positions of Head End Lowering pedals and Foot End Lowering pedals

14.3.6 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

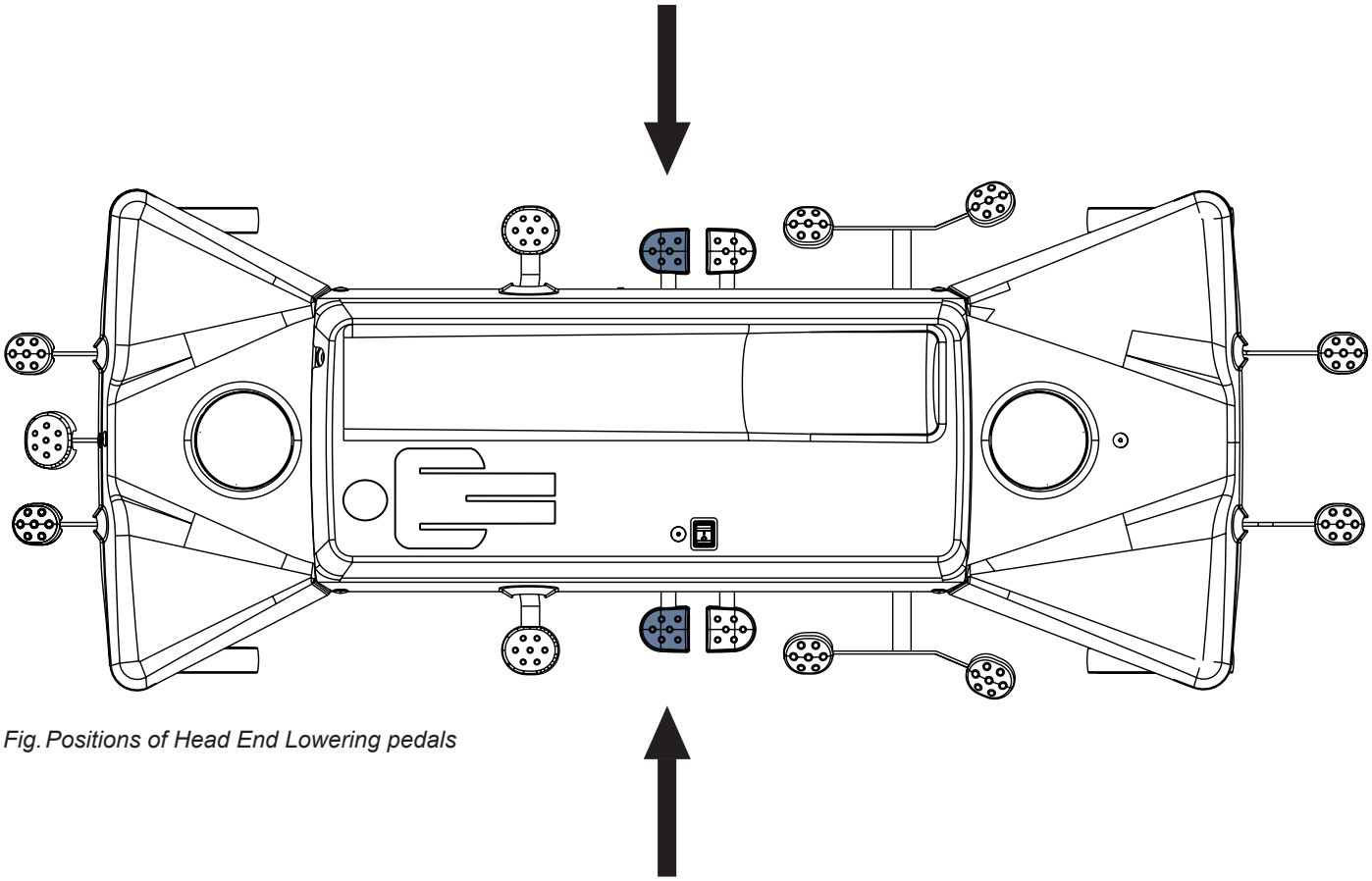


Fig. Positions of Head End Lowering pedals

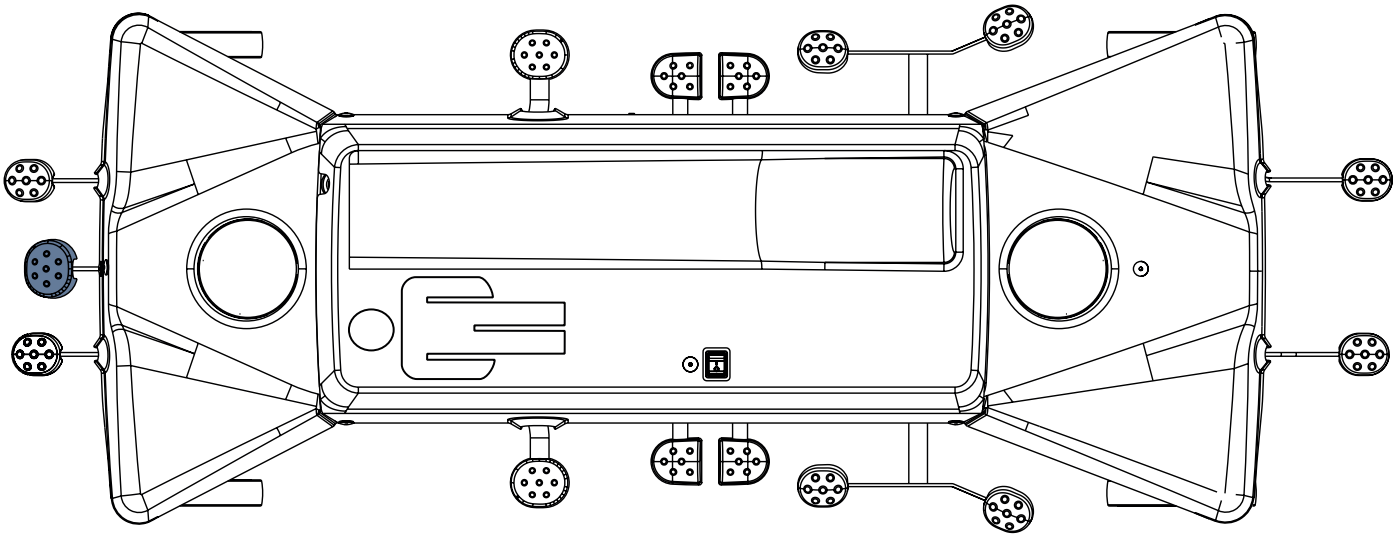
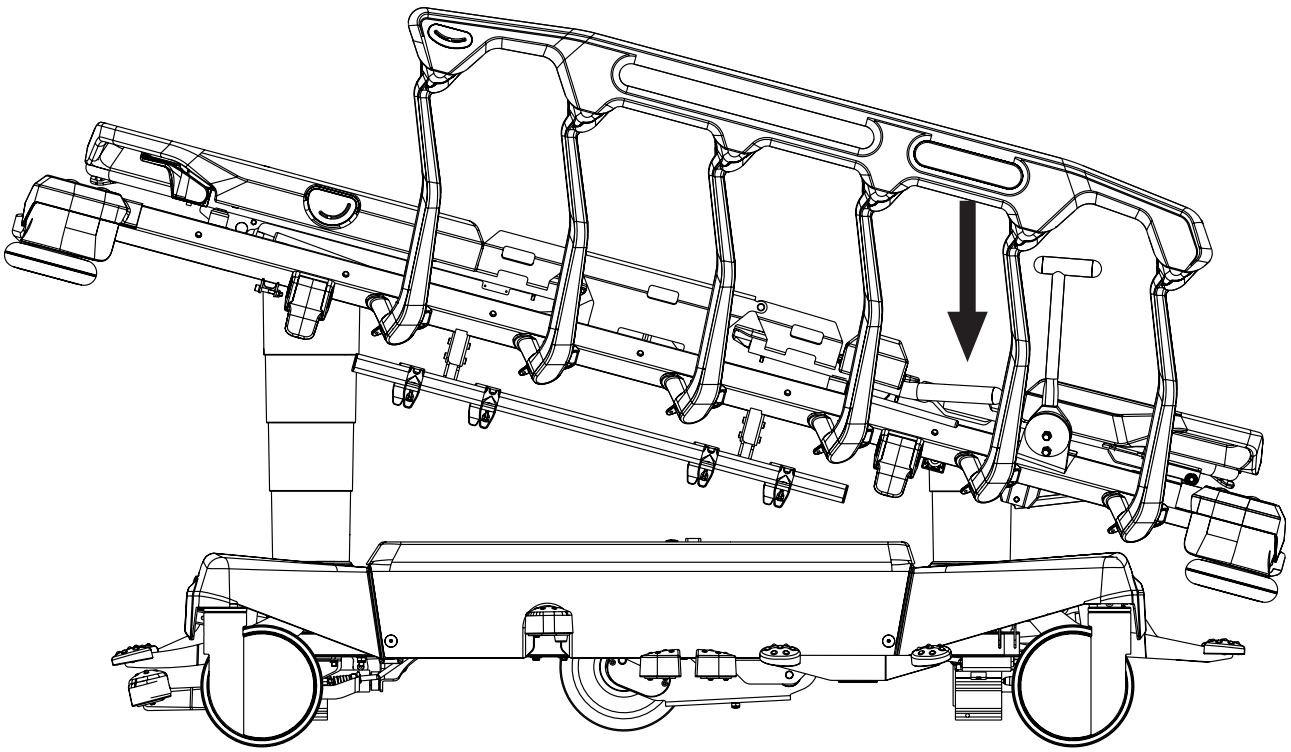


Fig. Position of Head End Trendelenburg Pedal (optional)

14.3.7 Anti-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 Anti-Trendelenburg Tilt:

► press Foot End Lowering pedal until intended position is reached

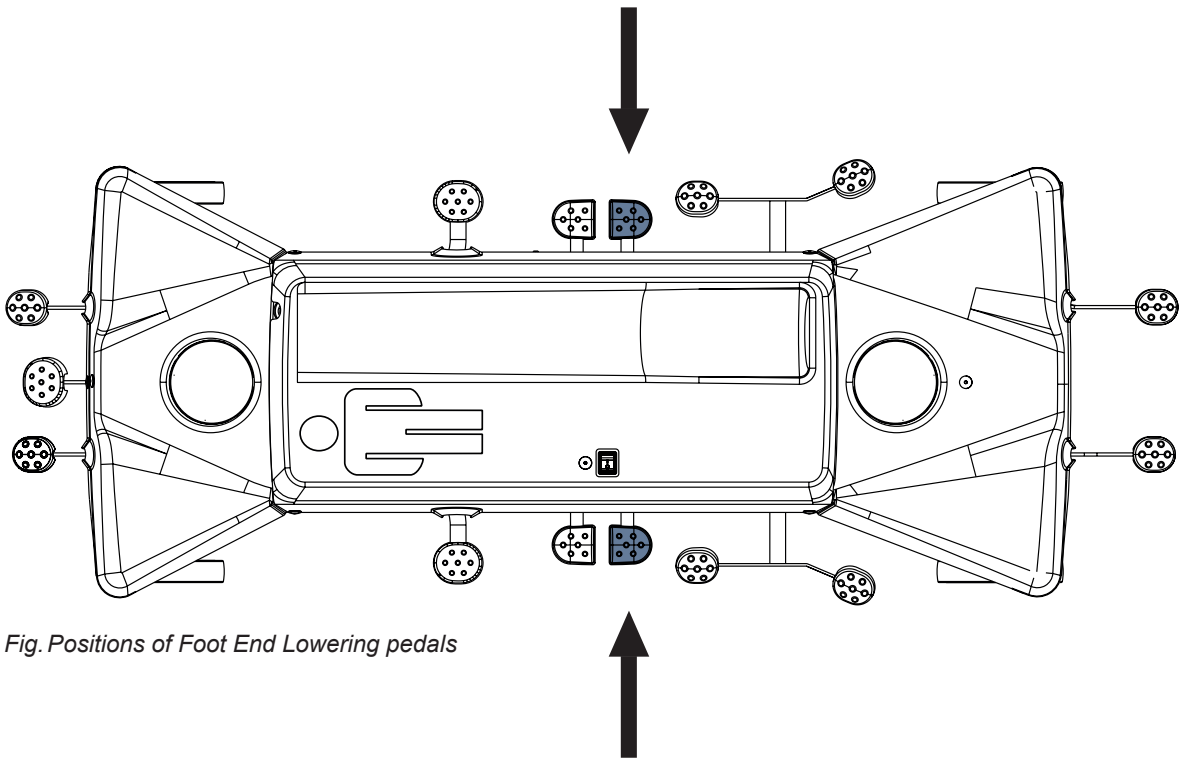
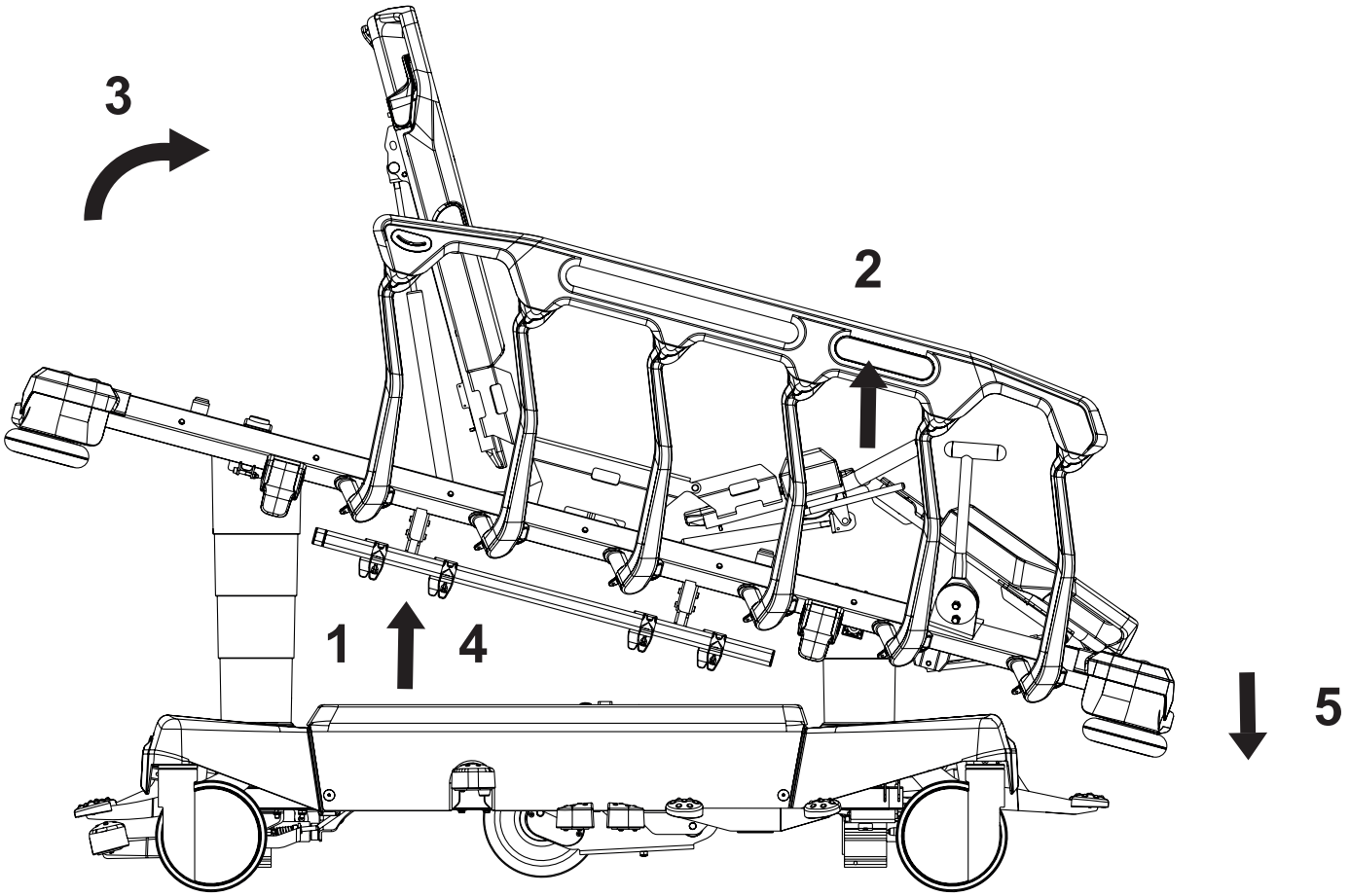


Fig. Positions of Foot End Lowering pedals

14.3.8 Cardiac Chair Position (only 4-part Mattress Support Platform)



To reach Cardiac Chair Position:

► 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**)

14.4 Emergency Backrest 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. In the case of Mattress Support Platform with 4 sections position Backrest and Thighrest to the lowest position and Mattress Support Platform to the lowest position.

14.4.1 The 2-part Mattress Support Platform

Set the position as follows:

► Adjust Backrest to the lowest position.
► Adjust Mattress Support Platform to the lowest position.

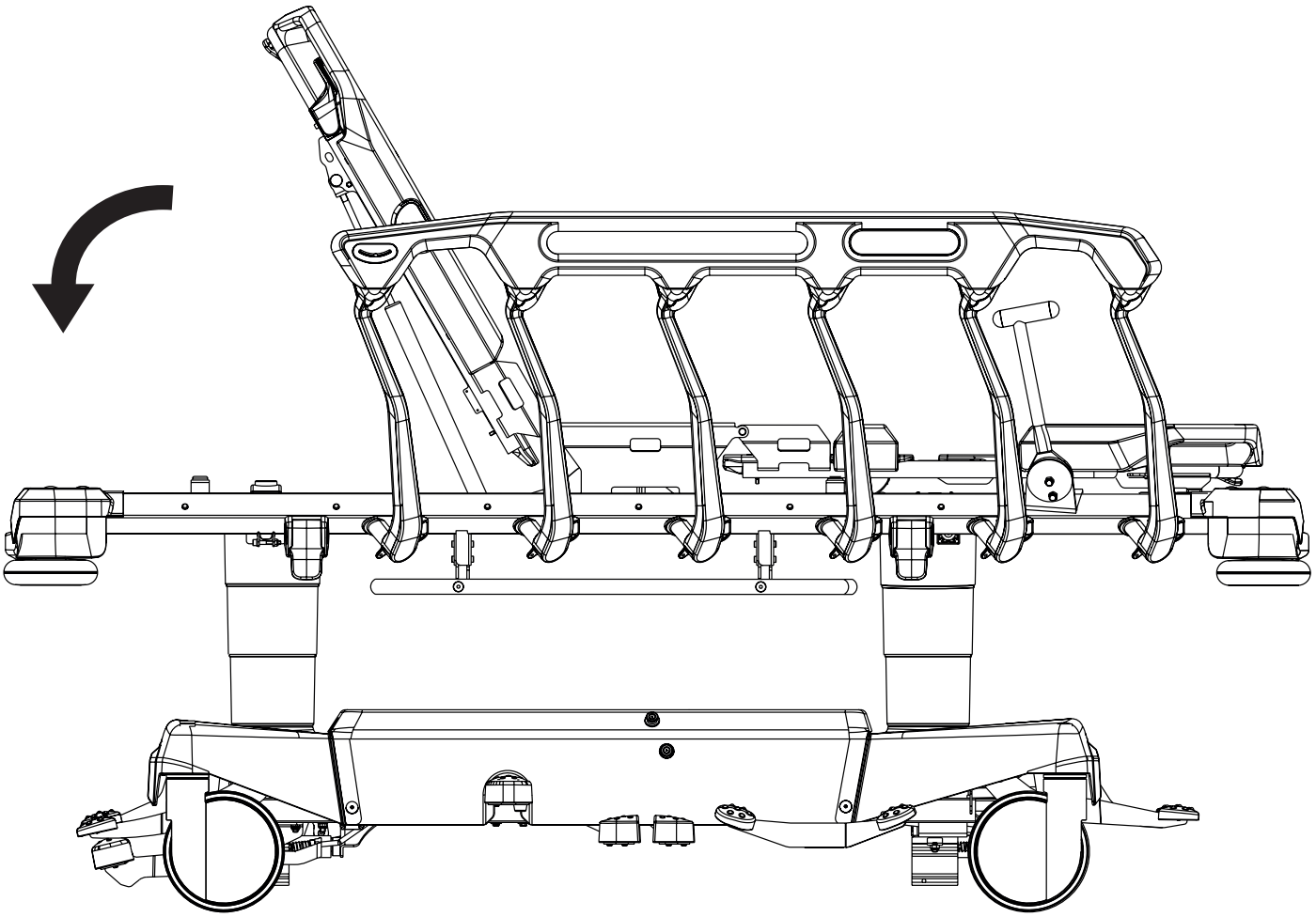


Fig. Preparation for Cardiopulmonary Resuscitation (2-part Mattress Support Platform)

14.4.2 The 4-part Mattress Support Platform

Set the position as follows:

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

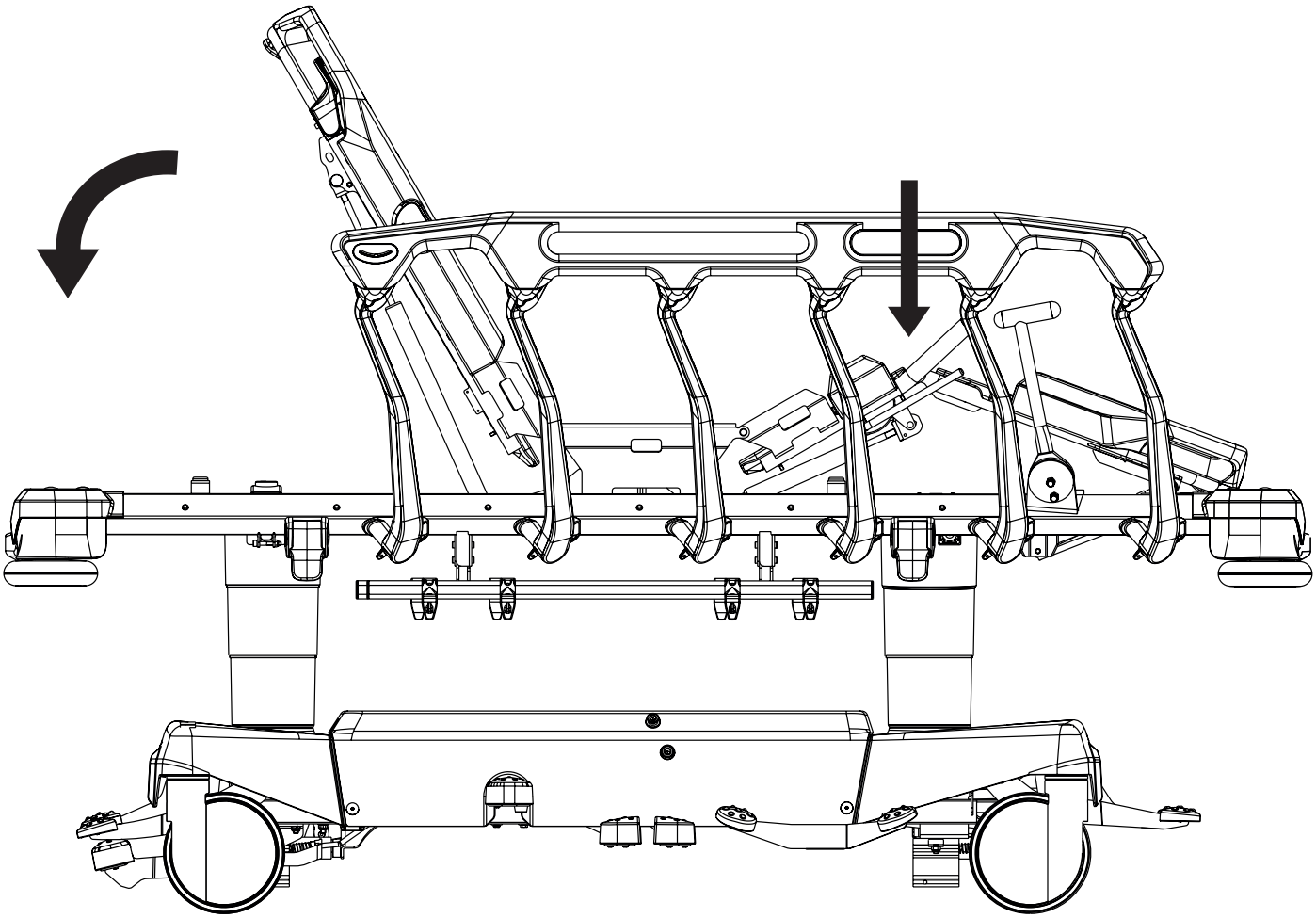


Fig. Preparation for Cardiopulmonary Resuscitation (4-part Mattress Support Platform)

14.5 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 increasement 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.

15 Scales Control (only Sprint 200 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 200 with scales.
Long press on a button of the control panel (lasting more than 60s) causes keyboard fault.

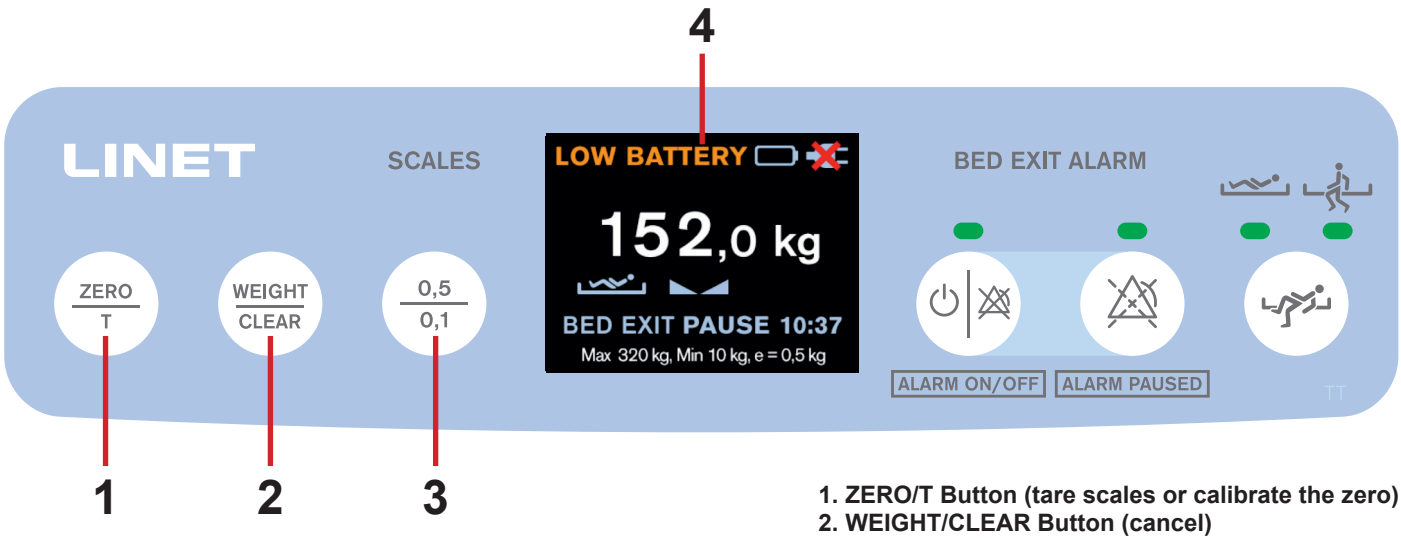


Fig. Scales and Bed Exit Alarm Monitoring Control Panel (keyboard and display)

1. ZERO/T Button (tare scales or calibrate the zero)
2. WEIGHT/CLEAR Button (cancel)
3. Scale Interval Switch Button (0,5kg/0,1kg)
4. Display

15.1 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.

15.2 Displaying

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

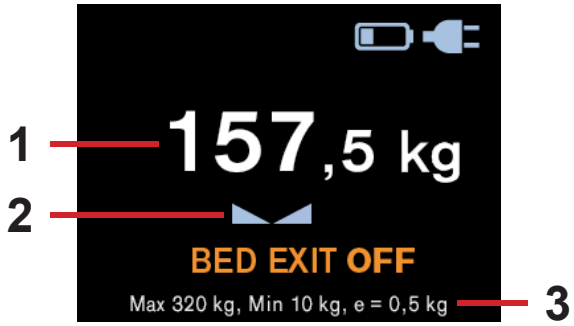


Fig. Display description (scales)

1. Weight value with unit of weight (kg)
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/T Button or WEIGHT/CLEAR Button.
Weight value is shown for 30s.

To change scale interval:
► Press Scale Interval Switch Button (3) to display value with actual scale interval 0,1 kg.

15.2.1 Discrete Mode

Fig. Discrete Mode

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

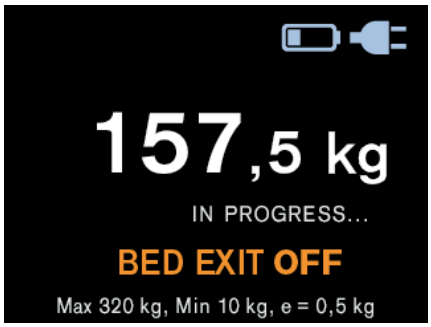
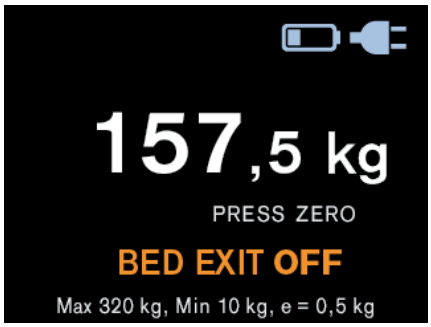
Time and Date is displayed in the Discrete Mode.

15.3 Taring

Taring can be done in a range of 6,4kg to 319,5kg. Taring is used to set “0” on the display before placing the patient on the stretcher.
Taring 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/T Button until **IN PROGRESS...** appears on the display and weight value starts to flash.
► Release ZERO/T Button.
PRESS ZERO appears on the display.
► Press ZERO/T Button again.
► Wait until a beep indicates stabilized scales during Taring.
“0” is shown on the display.
Place the patient on the stretcher.

To cancel Taring:
► Press WEIGHT/CLEAR Button while Taring.

Status of the Taring	Signalisation
1) First step of the Taring: **processing after the press and hold of the ZERO/T Button.**	
2) Second step of the Taring: **instruction to press ZERO/T Button again.**	
3) Third step of the Taring: **“0” is shown on the display.**	

15.4 Stretcher Overload

If load on the stretcher is over 330 kg:
► Warning popu-up window is shown on the display.

Fig. Sprint 200 with scales is overloaded (pop-up)

15.5 Stretcher Underload

If the stretcher is underloaded:
► Display shows the „**LOW**“.

15.6 Weighing in tilt

It is possible to use the scales in any position of the mattress support platform of the Sprint 200 with scales if its undercarriage is situated on the horizontal floor.

15.7 Calibration of the Zero

Calibration of the Zero is only possible in a range of ±6,4kg 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/T Button until weight value starts to flash. Release ZERO/T Button.
► Press ZERO/T Button to confirm Calibration of the Zero.
“0” is shown on the display and a long acoustic signal confirms Calibration of the Zero.

To cancel the Calibration of the Zero:
► Press WEIGHT/CLEAR Button while Calibration of the Zero.

15.8 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 200 with scales was without inserted batteries.	Set the time in the Settings Menu (see „16.9 Settings Menu“ on the page 87).
	Sprint 200 stretcher requires the periodic preventive maintenance (PPM). This notification apears each 6 hours if the periodic preventive maintenance is still required.	Contact service department approved by manufacturer.

15.9 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	%

16 Bed Exit Alarm Monitoring (only Sprint 200 with scales)

WARNING!
It is not possible to use Bed Exit Alarm Monitoring when Sprint 200 with scales is disconnected from the mains power! No Bed Exit Alarm can be triggered when Sprint 200 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 200 with scales. Bed Exit Alarm Monitoring triggers alarms when it detects that patient is not present in the expected position.

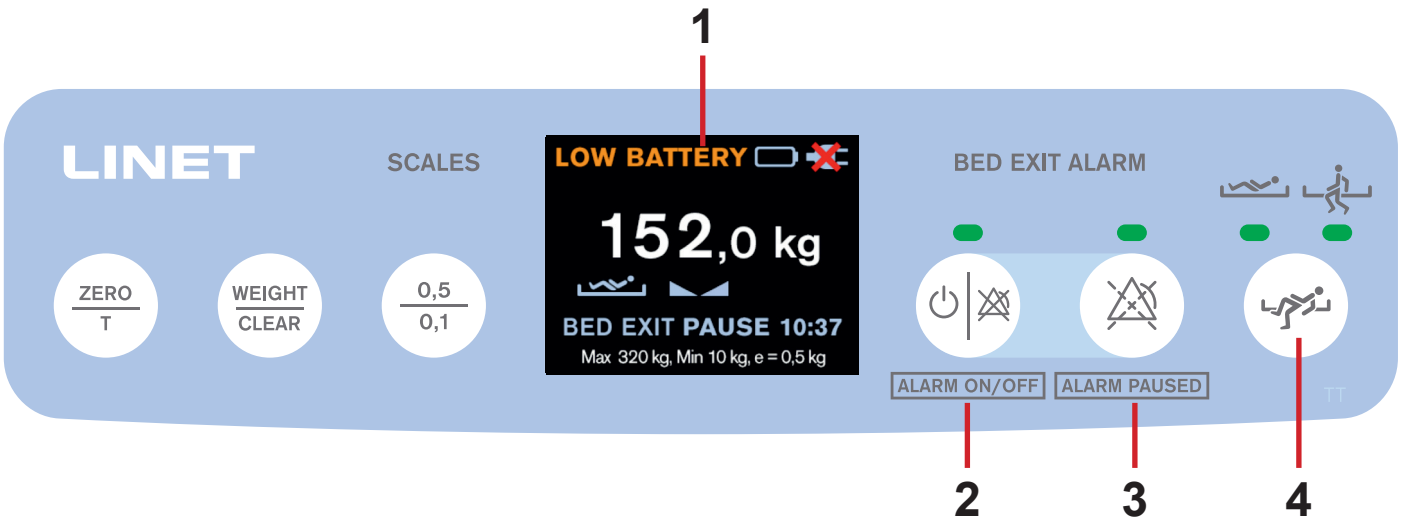


Fig. Scales and Bed Exit Alarm Monitoring Control Panel (keyboard and display)

1. Display
2. ON/OFF 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)

16.1 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.

16.2 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 200 with scales. Bed Exit Alarm Monitoring will be activated after patient will be detected on the stretcher.

16.3 Activation

To activate Bed Exit Alarm Monitoring:
► Press ON/OFF 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 ON/OFF 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.

16.4 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.

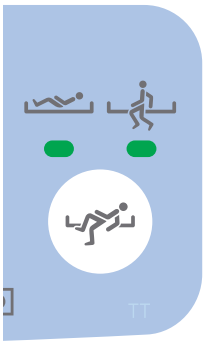


Fig. Bed Exit Alarm Monitoring Button with 2 Green Indicators above

16.5 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 ON/OFF Button (**2**).

16.6 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 ON/OFF 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.

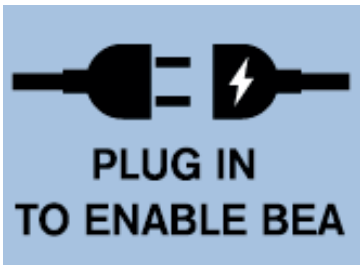
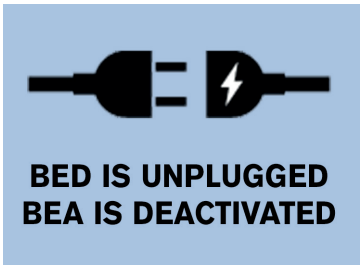
Fig. Visual signalisation of the Bed Exit Alarm on the display (yellow field and black symbols)

Fig. Two pictures alternating during triggered Bed Exit Alarm

16.7 Deactivation

To deactivate Bed Exit Alarm Monitoring:
► Press ON/OFF Button (**2**).
BED EXIT OFF is displayed on the display.

16.8 Pop-up windows connected with Bed Exit Alarm Monitoring

Status (Pop-up window)	Meaning	How to change the status
	Sprint 200 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.
	Battery becomes low (or bad) during activated Bed Exit Alarm Monitoring.	Connect Power Supply Cord to the mains.
	Bed Exit Alarm Monitoring is activated and Sprint 200 with scales becomes disconnected from the mains.	Connect Power Supply Cord to the mains.

16.9 Settings Menu

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

To enter Settings Menu:
► Press Bed Exit Alarm Monitoring Button, PAUSE Button and ON/OFF Button at the same time for 3s.
Settings Menu is opened only for 60s unless adjustment follows.

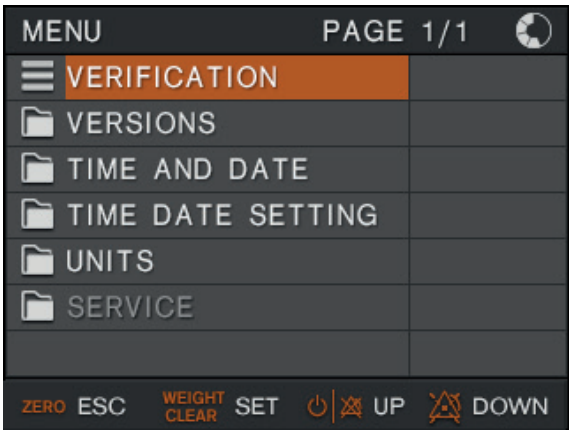


Fig. Settings Menu

Fig. Verification Screen

To enter Verification Screen:
► Use ON/OFF 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 ON/OFF Button or PAUSE Button to select the line VERSIONS.
► Press WEIGHT/CLEAR Button to confirm the selection.

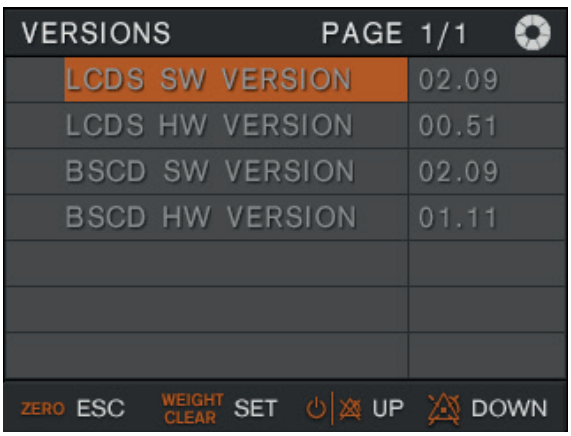


Fig. Software and Hardware Versions Screen

16.9.1 Time and Date Settings

To enter Settings Menu:
► Press Bed Exit Alarm Monitoring Button, PAUSE Button and ON/OFF Button at the same time for 3s.
Settings Menu is opened only for 60s unless adjustment follows.

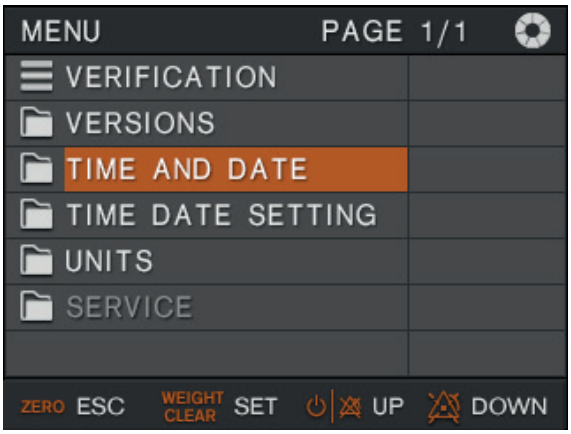


Fig. Settings Menu (TIME AND DATE)

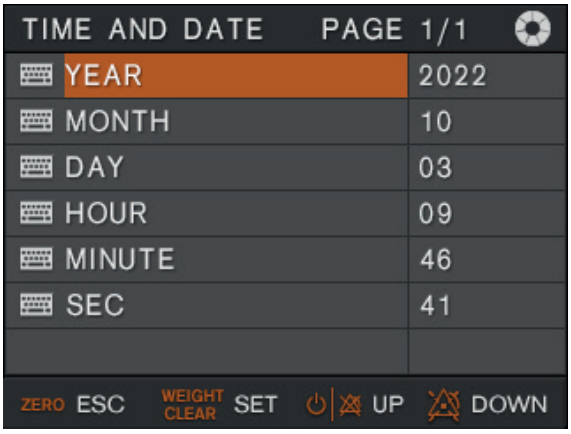


Fig. TIME AND DATE Menu

To select TIME AND DATE:
► Use ON/OFF Button or PAUSE Button to select the line TIME AND DATE.
► Press WEIGHT/CLEAR Button to confirm the selection.
► Use ON/OFF Button or PAUSE Button to select the parameter to be changed.
► Press WEIGHT/CLEAR Button to confirm the selection.
► Use ON/OFF Button or PAUSE Button to set the required value.
► Press WEIGHT/CLEAR Button to confirm the change.

To leave the Settings Menu:
► Press ZERO/T Button.

16.9.2 Time and Date Format Settings

To enter Settings Menu:
► Press Bed Exit Alarm Monitoring Button, PAUSE Button and ON/OFF Button at the same time for 3s.
Settings Menu is opened only for 60s unless adjustment follows.

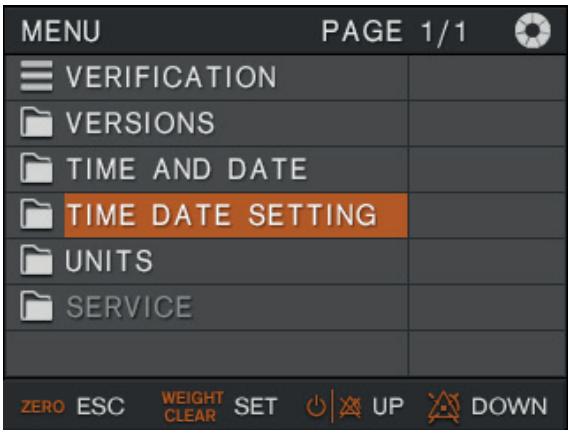


Fig. Settings Menu (TIME DATE SETTING)

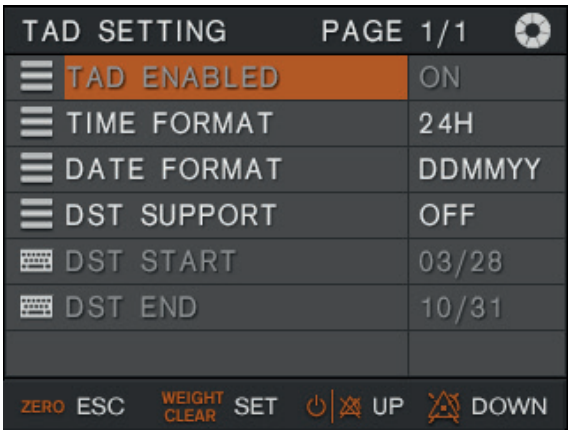


Fig. TIME DATE SETTING Menu

To select TIME AND DATE:
► Use ON/OFF Button or PAUSE Button to select the line TIME DATE SETTING.
► Press WEIGHT/CLEAR Button to confirm the selection.
► Use ON/OFF Button and PAUSE Button to select the parameter to be changed.
► Press WEIGHT/CLEAR Button to confirm the selection.
► Use ON/OFF 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/T Button.

16.10 Basic technical parameters of the Bed Exit Alarm Monitoring

Parameter	Value	Unit
Minimum Load for Bed Exit Alarm Monitoring activation	Configuration Parameter (CP) (5 000 – 500 000)	g
Dimensions of the monitored Inner Zone	CP (100 – 1 000 × 100 – 1 000)	mm × mm
Minimum decrease of weight to alarm activation	CP (1 – 50)	%
Automatic alarm deactivation after patient's return to stretcher	CP (0 – (2^{32} − 1))	ms
Period of interrupted monitoring (PAUSE) after the press of PAUSE button	CP (60 – 3600)	s
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

17 Equipment

Product equipment depends on product configuration.

17.1 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 200 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 in the case of Sprint 200 with scales or with i-Drive Power.
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.

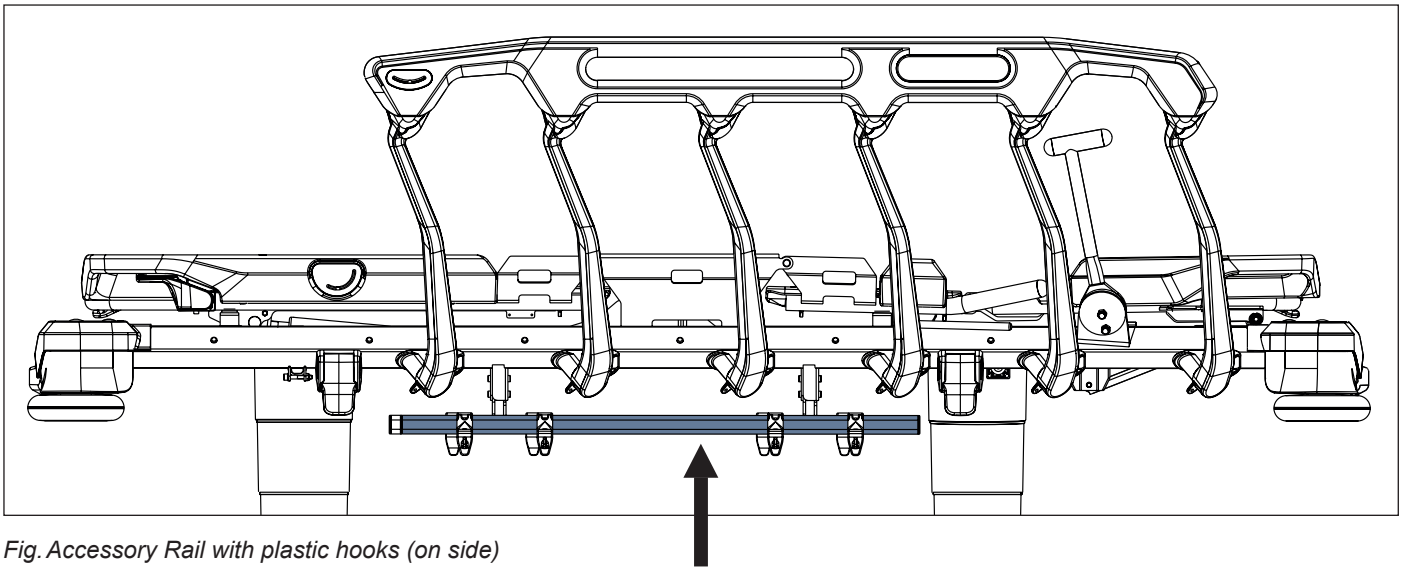


Fig. Accessory Rail with plastic hooks (on side)

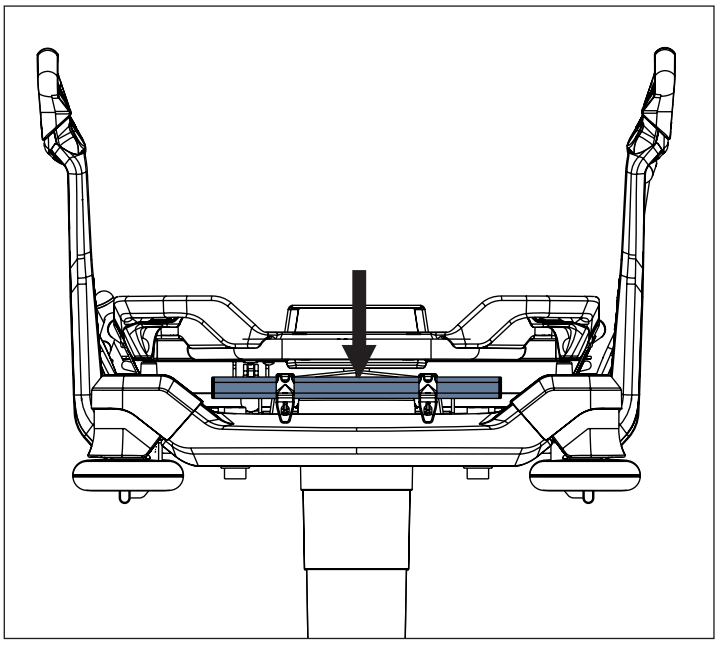


Fig. Accessory Rail with plastic hooks (at head end)

17.2 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.

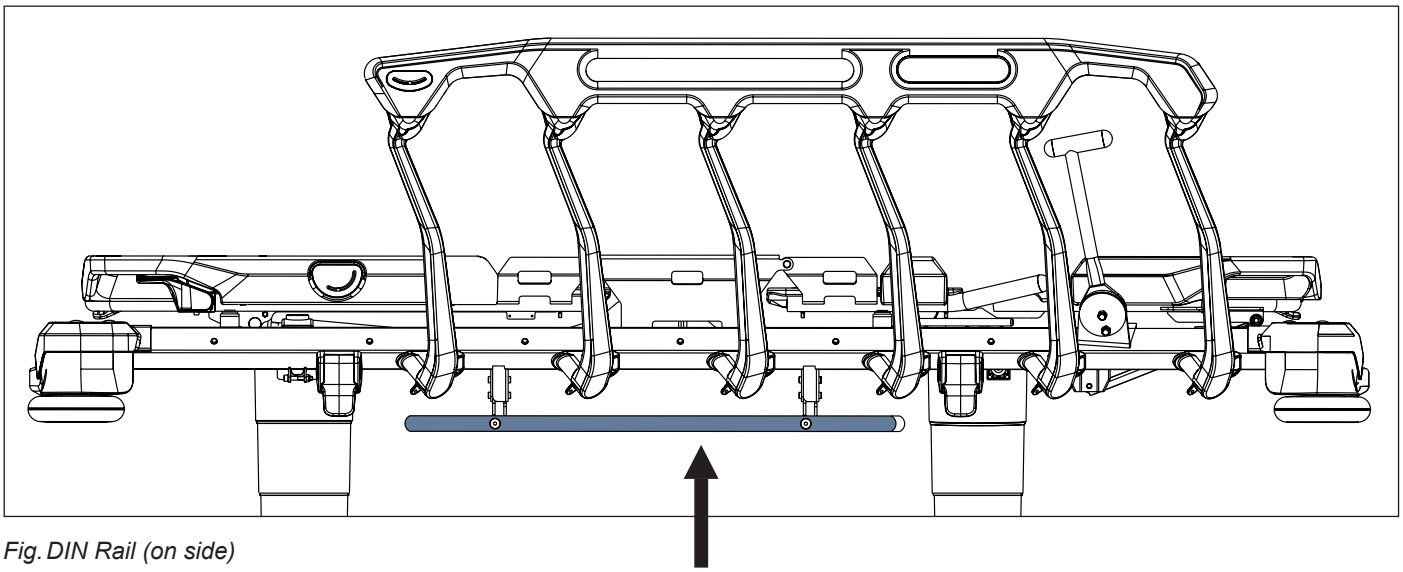


Fig. DIN Rail (on side)

17.3 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.

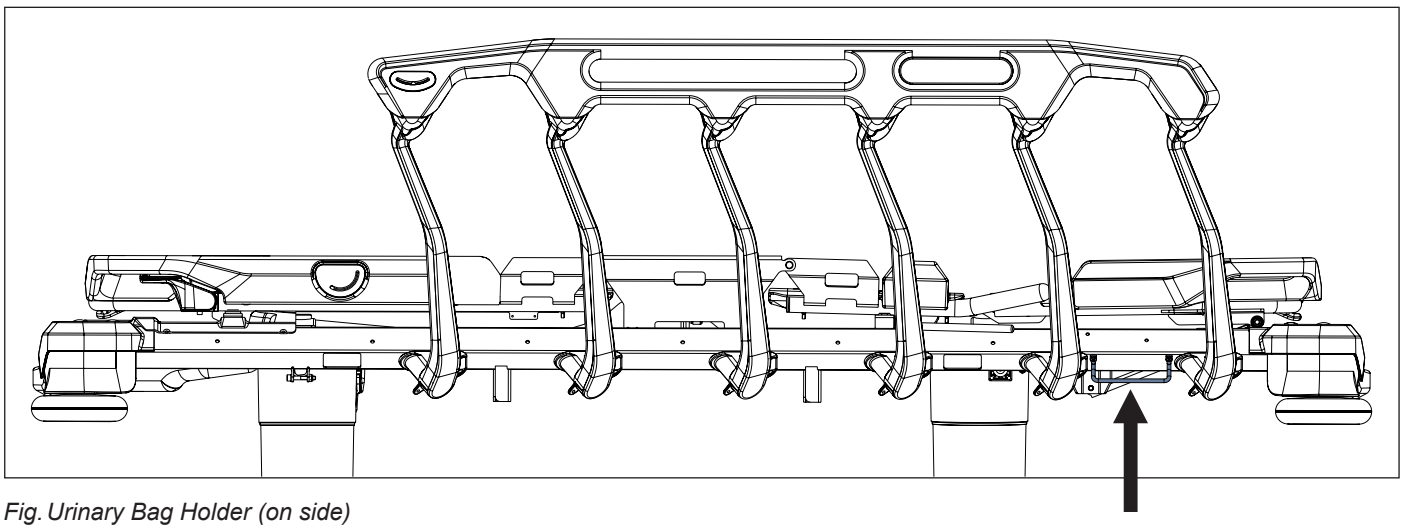


Fig. Urinary Bag Holder (on side)

17.4 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.

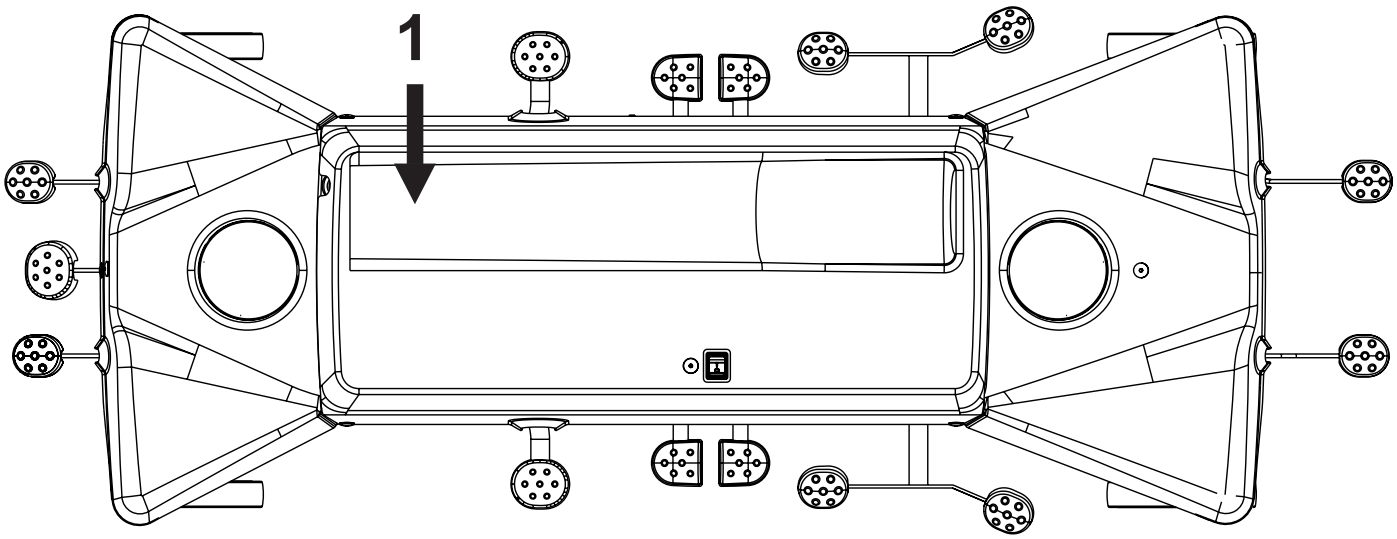


Fig. Storage space (Undercarriage Cover of the Sprint 200 with i-Drive Power)

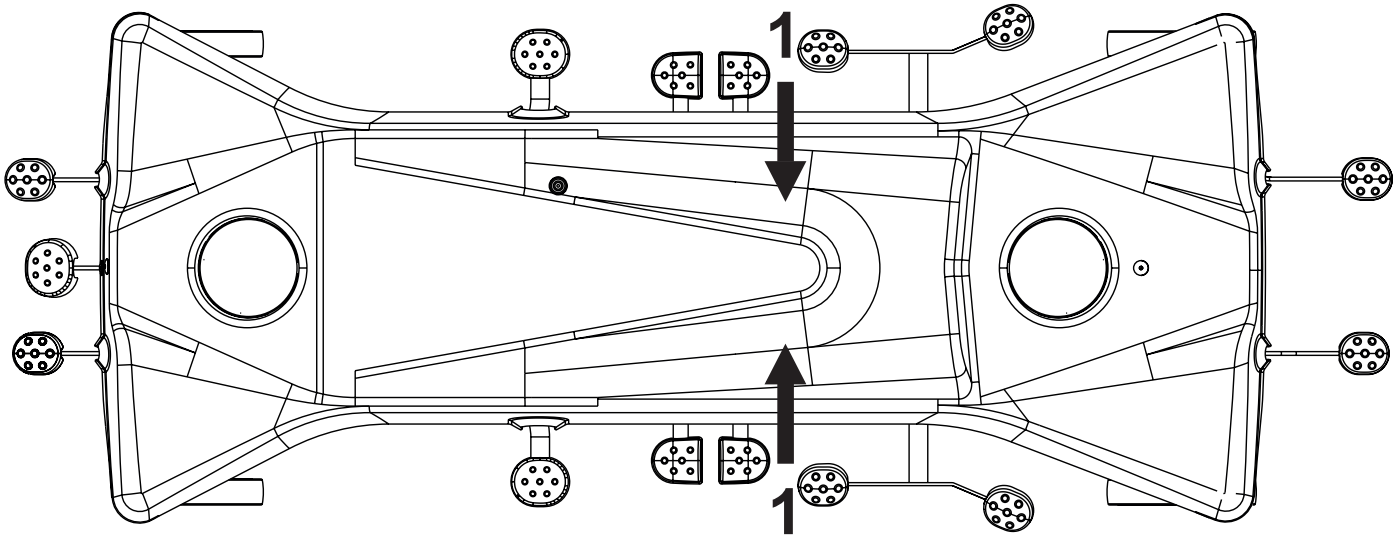


Fig. Storage space (Undercarriage Cover of the Sprint 200 without i-Drive Power)

17.4.1 Straps for oxygen bottles

Undercarriage cover of the Sprint 200 without i-Drive Power is equipped with 2 straps for oxygen bottles.
Undercarriage cover of the Sprint 200 with i-Drive Power is equipped with 1 strap for oxygen bottle.

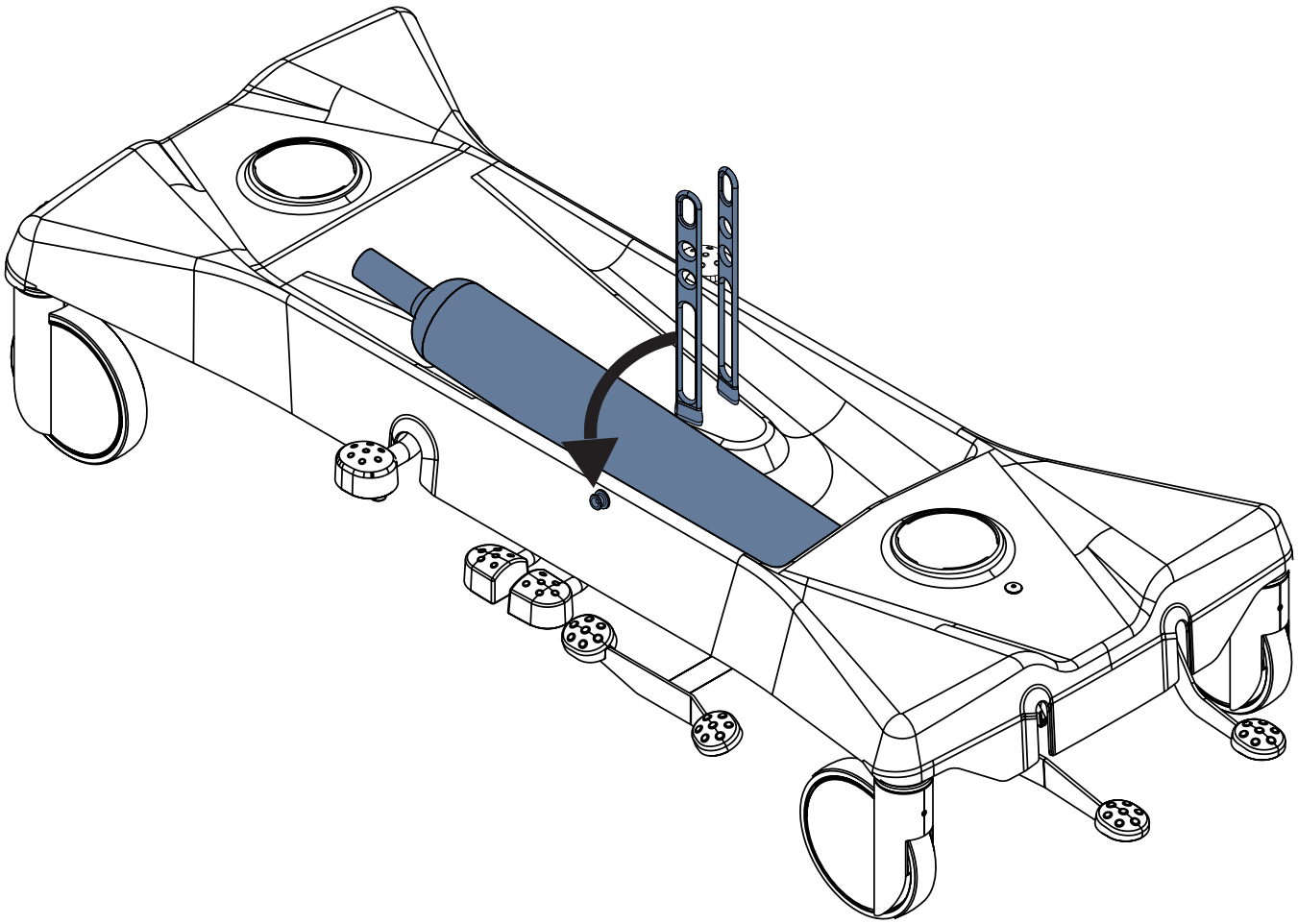


Fig. Fixation of an oxygen bottle on the undercarriage cover with straps for oxygen bottles

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.

17.5 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.

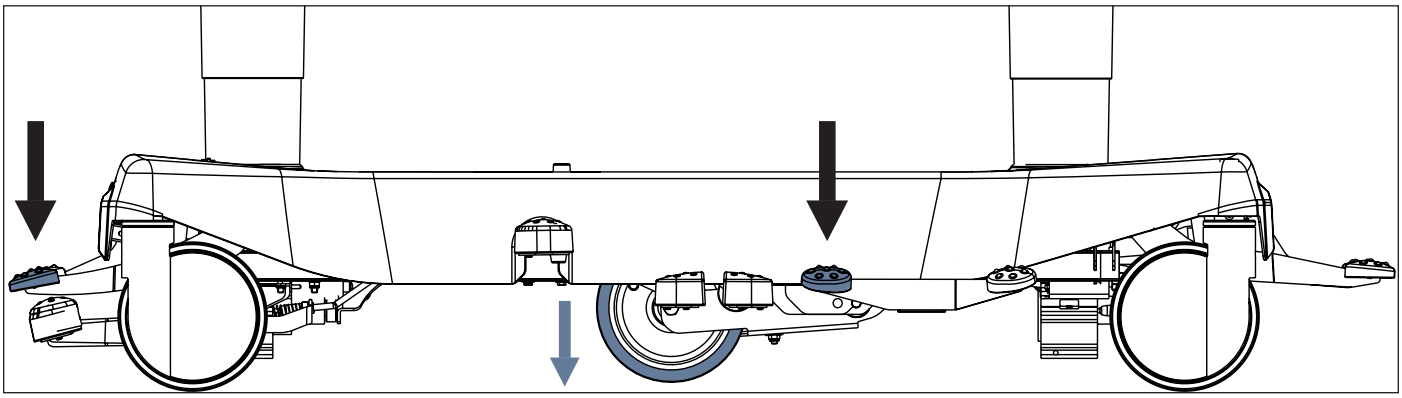


Fig. Activation of Fifth castor

17.6 Sprint 200 with Solido 3

Solido 3 with T-shape undercarriage is compatible with Sprint 200.

17.7 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 200 (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.

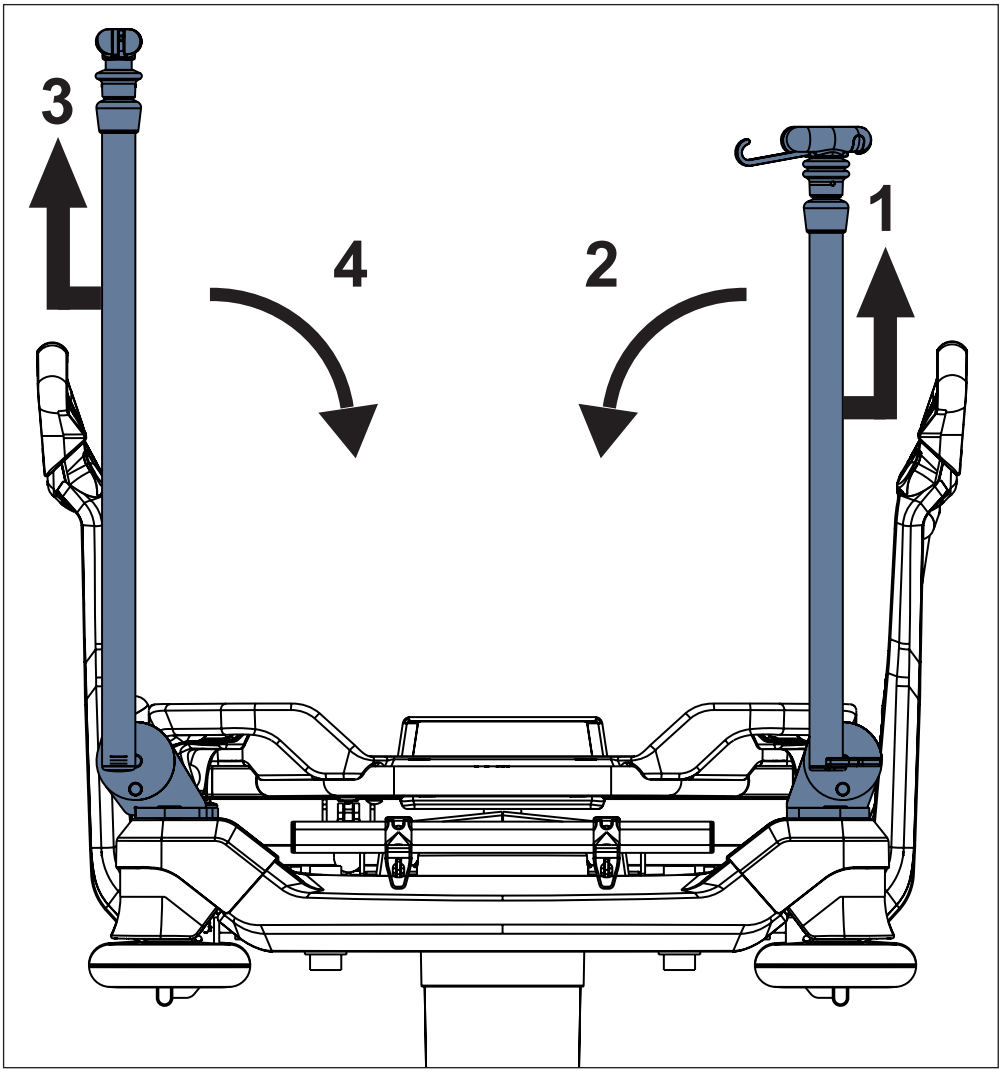


Fig. Pair of Foldable infusion stands (head end)

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**).

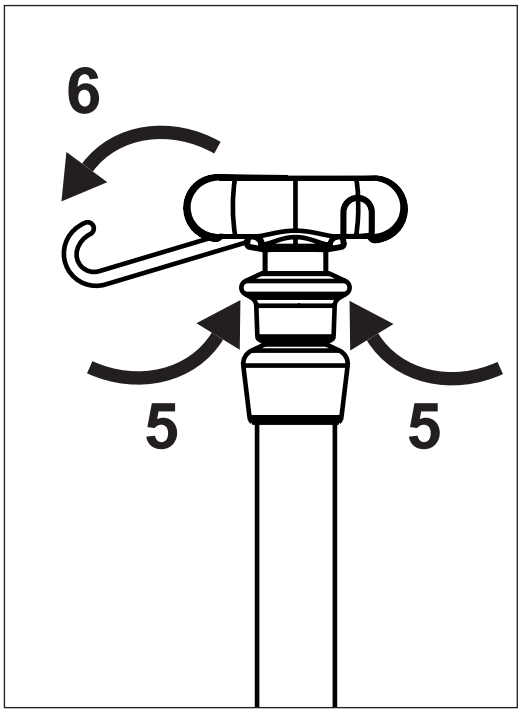


Fig. Control ring and hooks

17.8 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.

17.8.1 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.

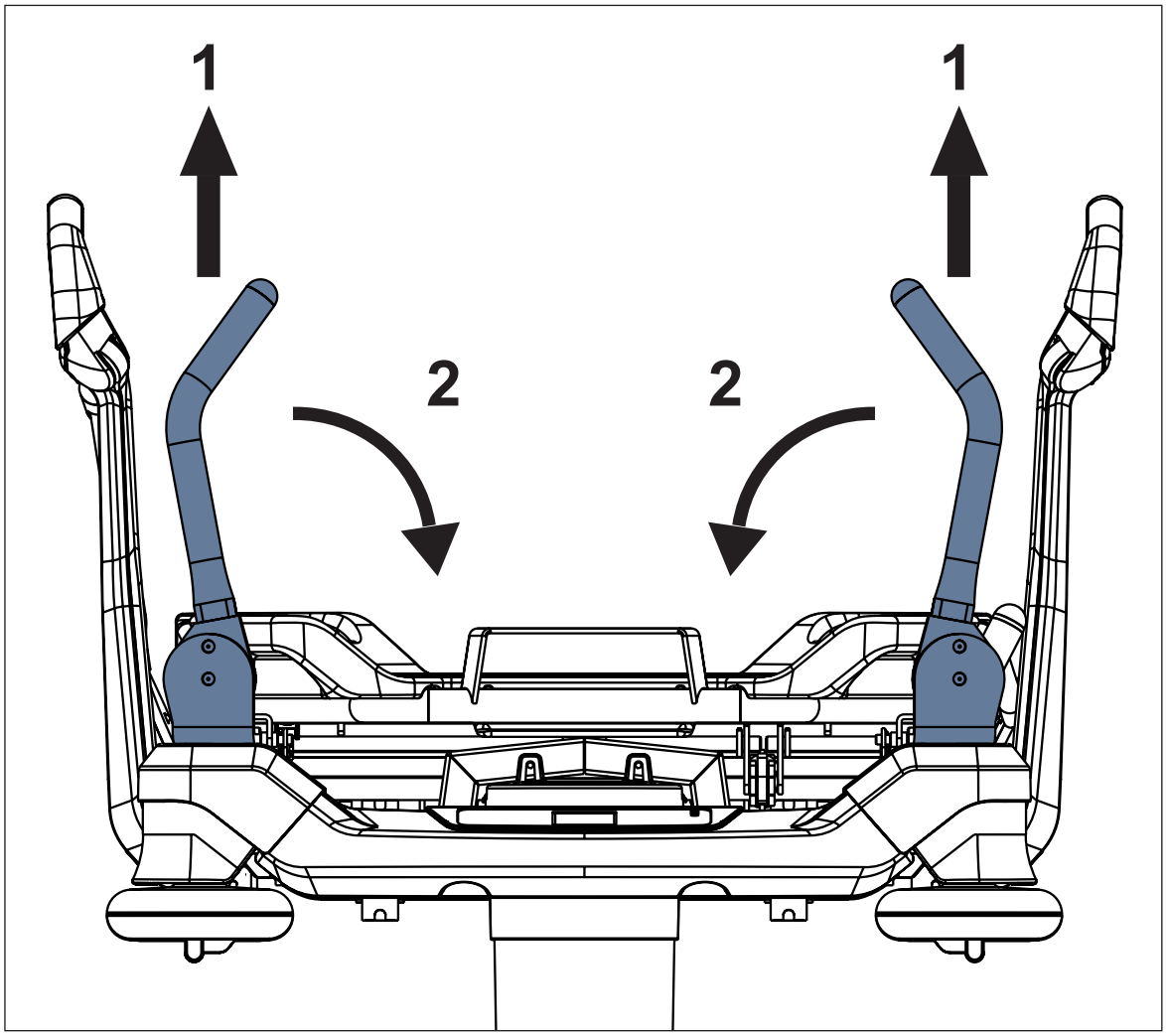


Fig. Foldable handles (foot end)

17.8.2 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.

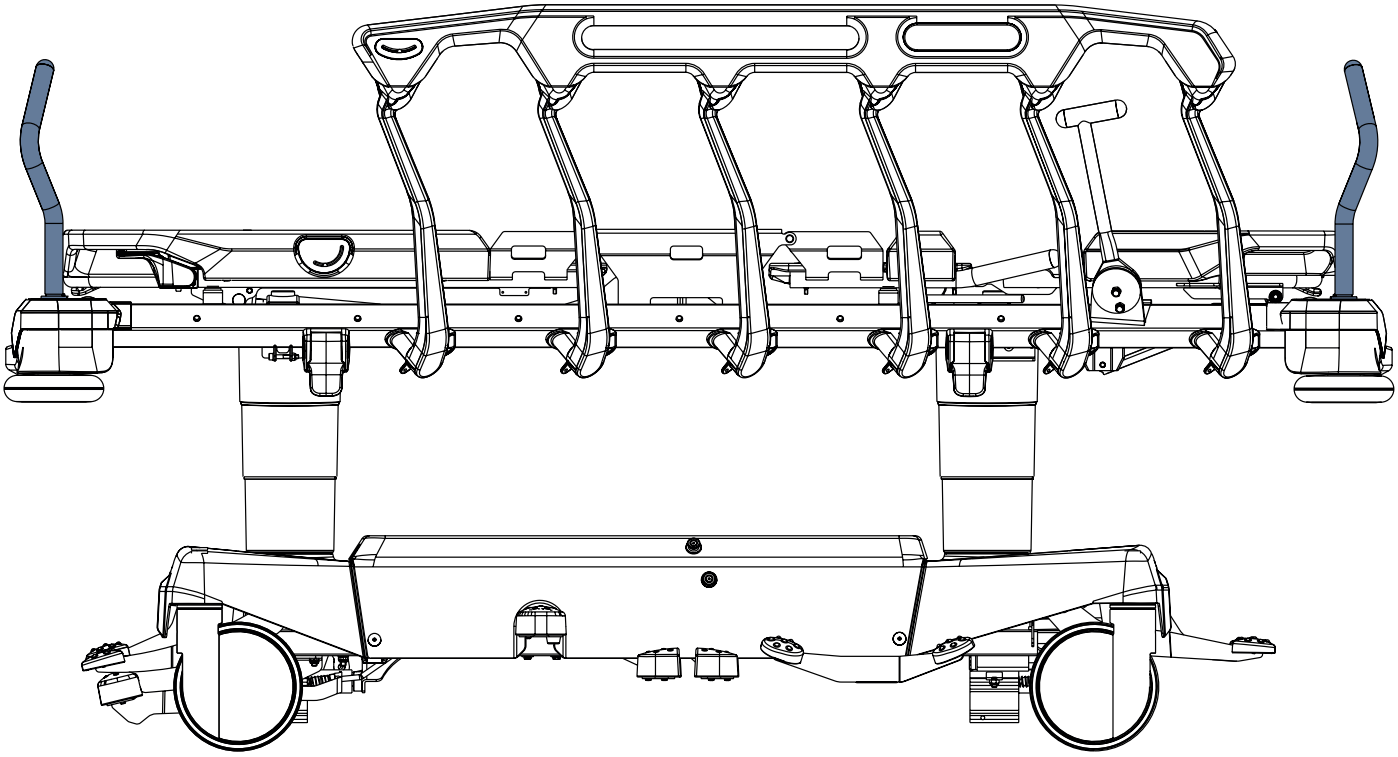


Fig. Fixed handles (at head end and foot end)

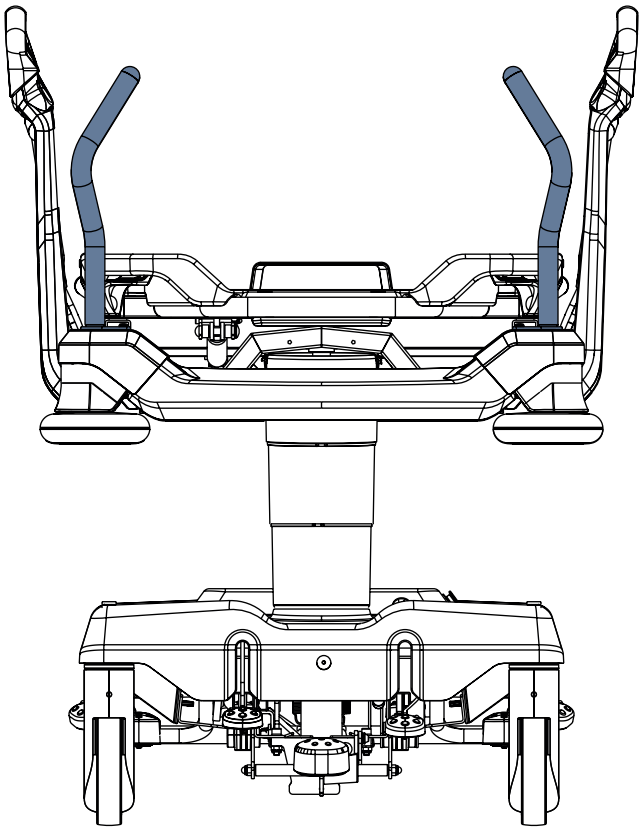


Fig. Fixed handles (at head end)

17.9 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 Anti-Trendelenburg tilt.

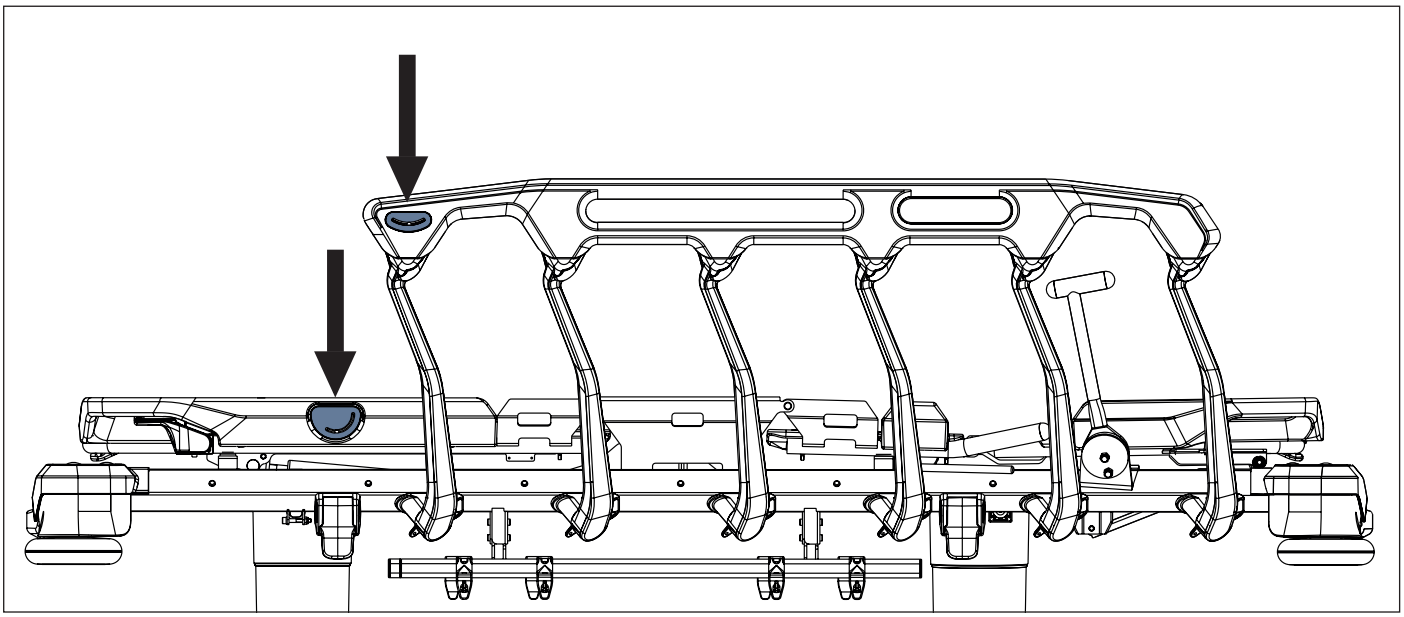


Fig. Angle Indicators

17.10 Mobi-Lift Handle

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

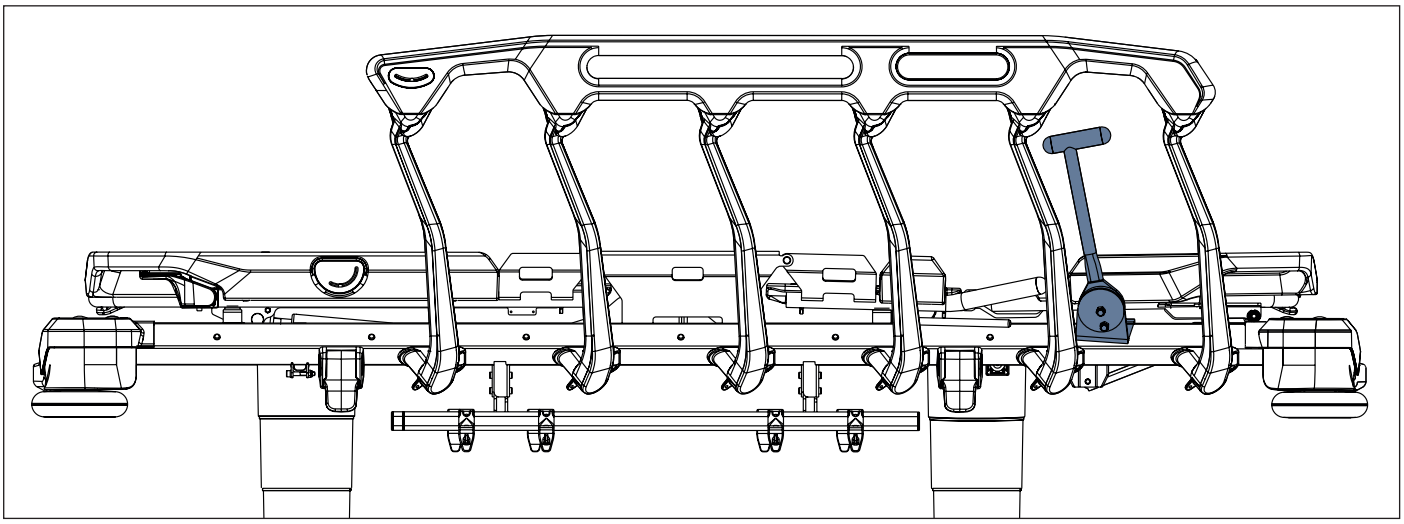


Fig. Mobi-Lift Handle

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.

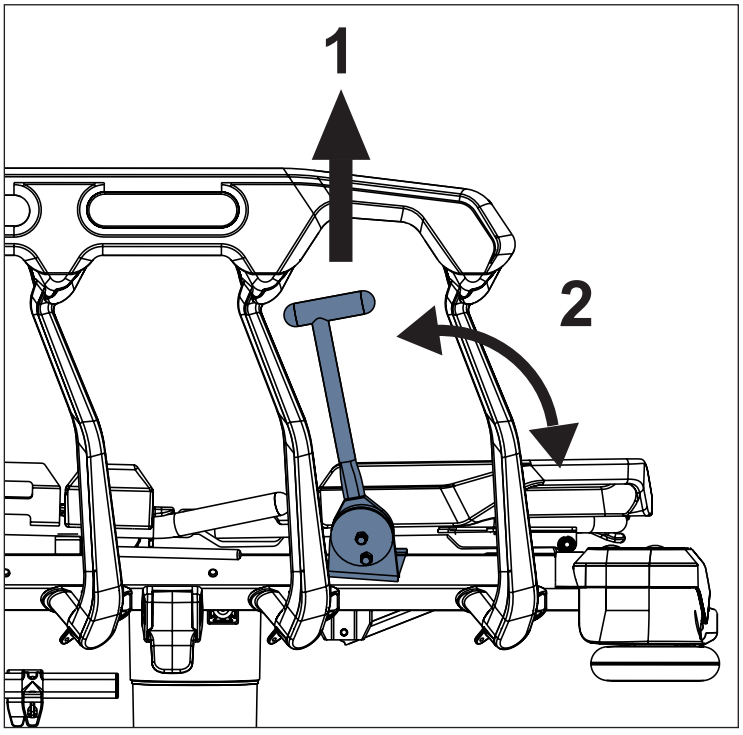


Fig. Mobi-Lift Handle Control

17.11 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.

17.11.1 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.

17.11.2 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 ®.

17.11.3 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!

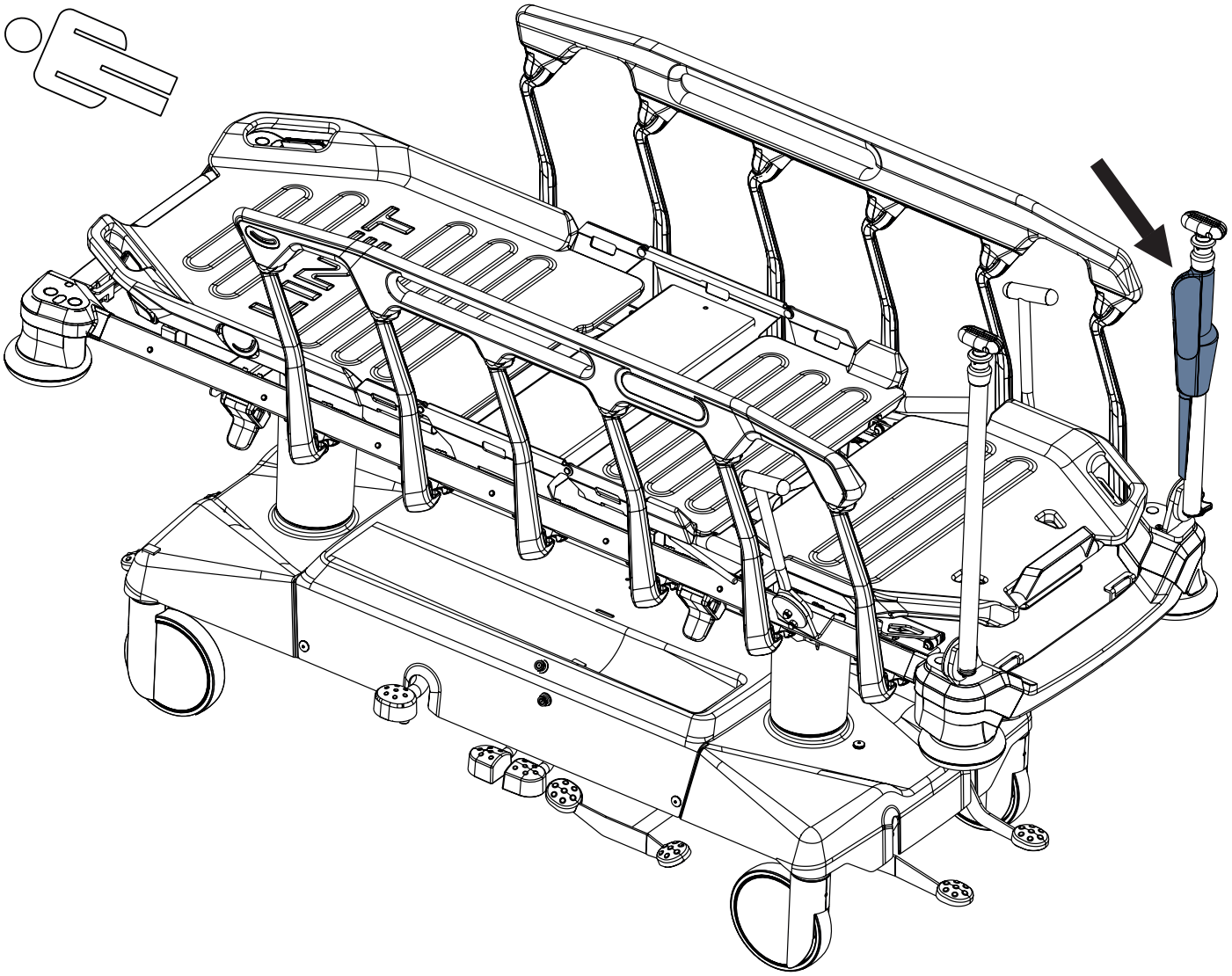


Fig. Position of the i-Drive Power Main Control Panel on the IV&Drive

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.

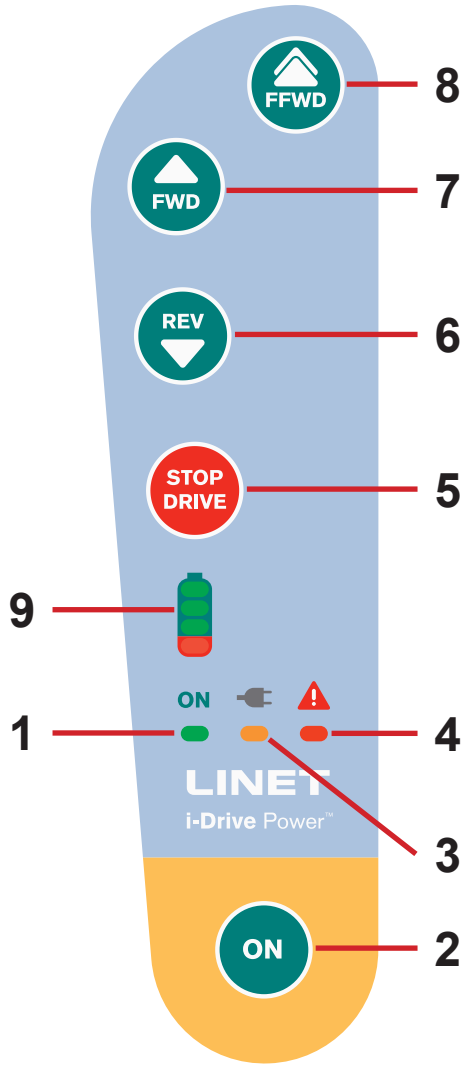


Fig. i-Drive Power Control Panel

1. ON LED (ON Indicator)
2. ON Button (i-Drive Power Wheel Activation Button)
3. Mains Power LED (stretcher connected to the mains)
4. Fault LED
5. STOP DRIVE Button
6. REVERSE Button
7. FORWARD Button
8. FAST FORWARD Button
9. Accumulator Charge Status Indicator

17.11.4 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 200.

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.

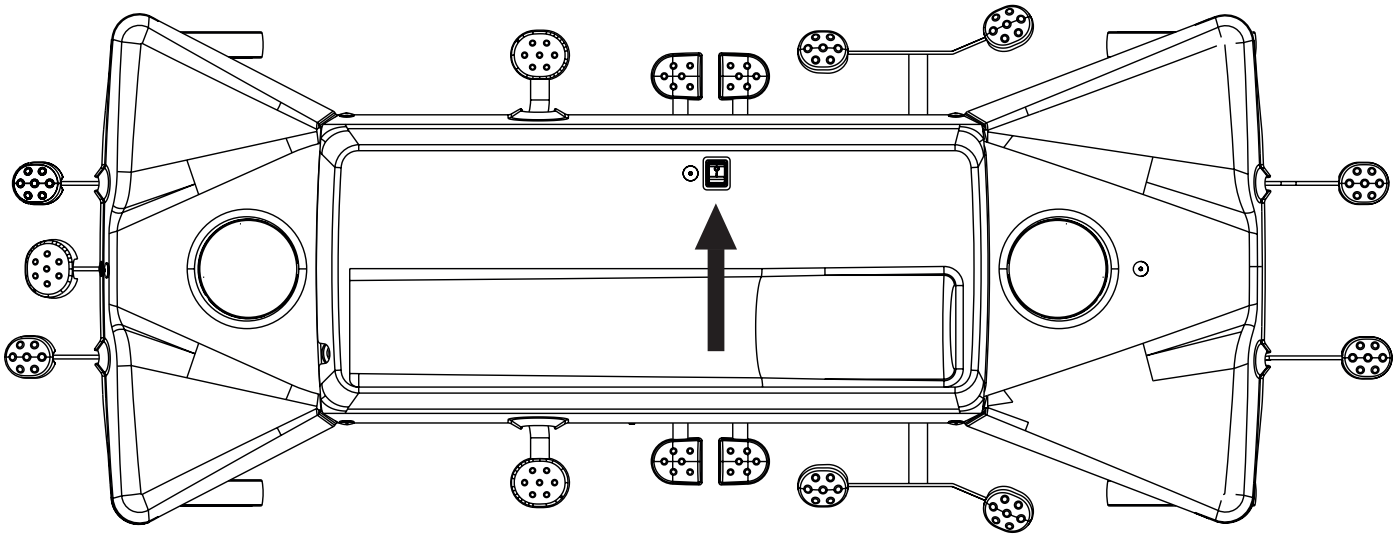
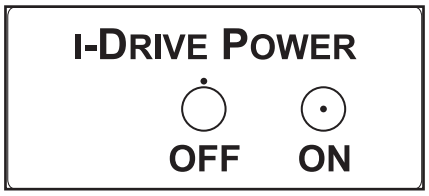


Fig. Position of the i-Drive Power Mains Switch



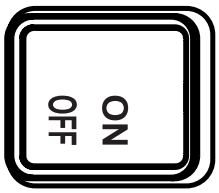


Fig. i-Drive Power Mains Switch with Label

17.11.5 Powered Drive

CAUTION!
Damage to property due to incorrect transport and involuntary movement!
► Prior to transport, ensure that the Sprint 200 with i-Drive Power is disconnected from the mains.
► Hang the mains cable on the appropriate hook on the Sprint 200 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 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 FFWD or button FWD or button REV. 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 STOP DRIVE when braking or in emergency.
7. i-Drive Power control system is automatically deactivated if no i-Drive Power function is used for 3 minutes. This is signalized by the green LED ON 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.

17.11.6 Braking

1. Press and hold the button STOP DRIVE to brake immediately.
-or-
2. Press and hold the button REV to brake slowly (Press the button FWD to brake when reversing).
-or-
3. 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 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 STOP DRIVE and castor control lever).

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

17.11.7 Free Drive

The i-Drive Power motor is equipped with free drive, which is active after pressing the forwards (FFWD or FWD) or backwards (REV) 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.

17.11.8 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 200 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.

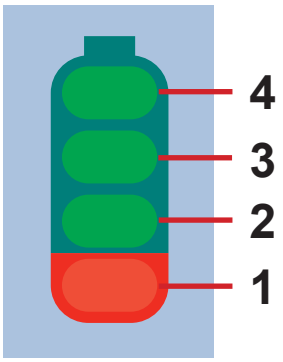


Fig. Accumulator Charge Status

17.11.9 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

17.11.10 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.

17.11.11 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°

17.11.12 Electrical specification

Parameter	Value
Input Voltage, Frequency	**230 V AC, 50/60 Hz** **127 V AC, 50/60 Hz** **120 V AC, 50/60 Hz** **110 V AC, 50/60 Hz** **100 V AC, 50/60 Hz**
Batteries Voltage	**12 V DC, Capacity: 9 Ah**
Maximum Power Input	**300 W**
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**

17.11.13 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

18 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 200 stretcher is designed for special passive mattresses from LINET portfolio.

The manufacturer recommends the use of the following mattresses on the Sprint 200 stretcher:

Sprint 200 PASSIVE MATTRESSES

- **Sprint 200 Standard**
- **Sprint 200 Comfort**
- **Sprint 200 Advanced**

Sprint 200 REACTIVE MATTRESSES

- **Sprint 200 Reactive**

These mattresses removed from the Sprint 200 mattress support platform are not designed for patient transport.

18.1 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 200 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 200 mattress has an ‘anti-slip’ coating. This is intended to help prevent the mattress moving around on the Sprint 200 mattress support platform during patient transport, mattress support platform articulation or whilst the patient is moving around.

18.2 Installation of Passive Mattress

The Sprint 200 passive mattresses are shaped to fit the Mattress Support Platform during stretcher positioning.

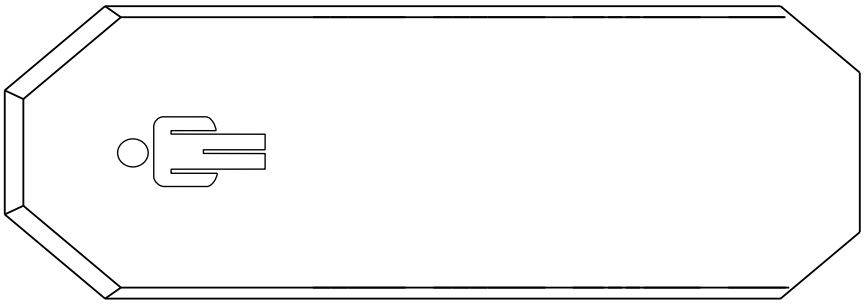


Fig. Passive Mattress (Sprint 200 with 2-part mattress support platform)

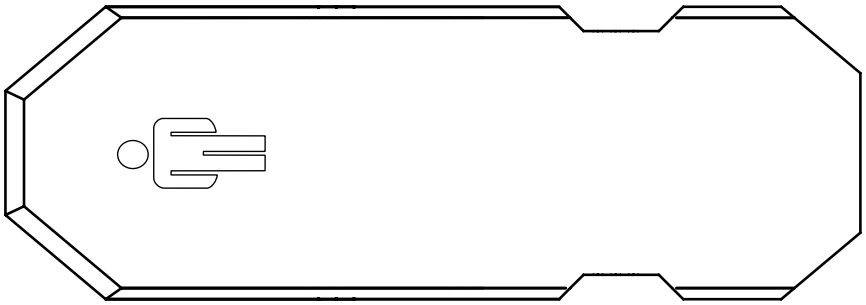


Fig. Passive Mattress (Sprint 200 with 4-part mattress support platform)

18.2.1 Strap with side release buckles

The Sprint 200 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.

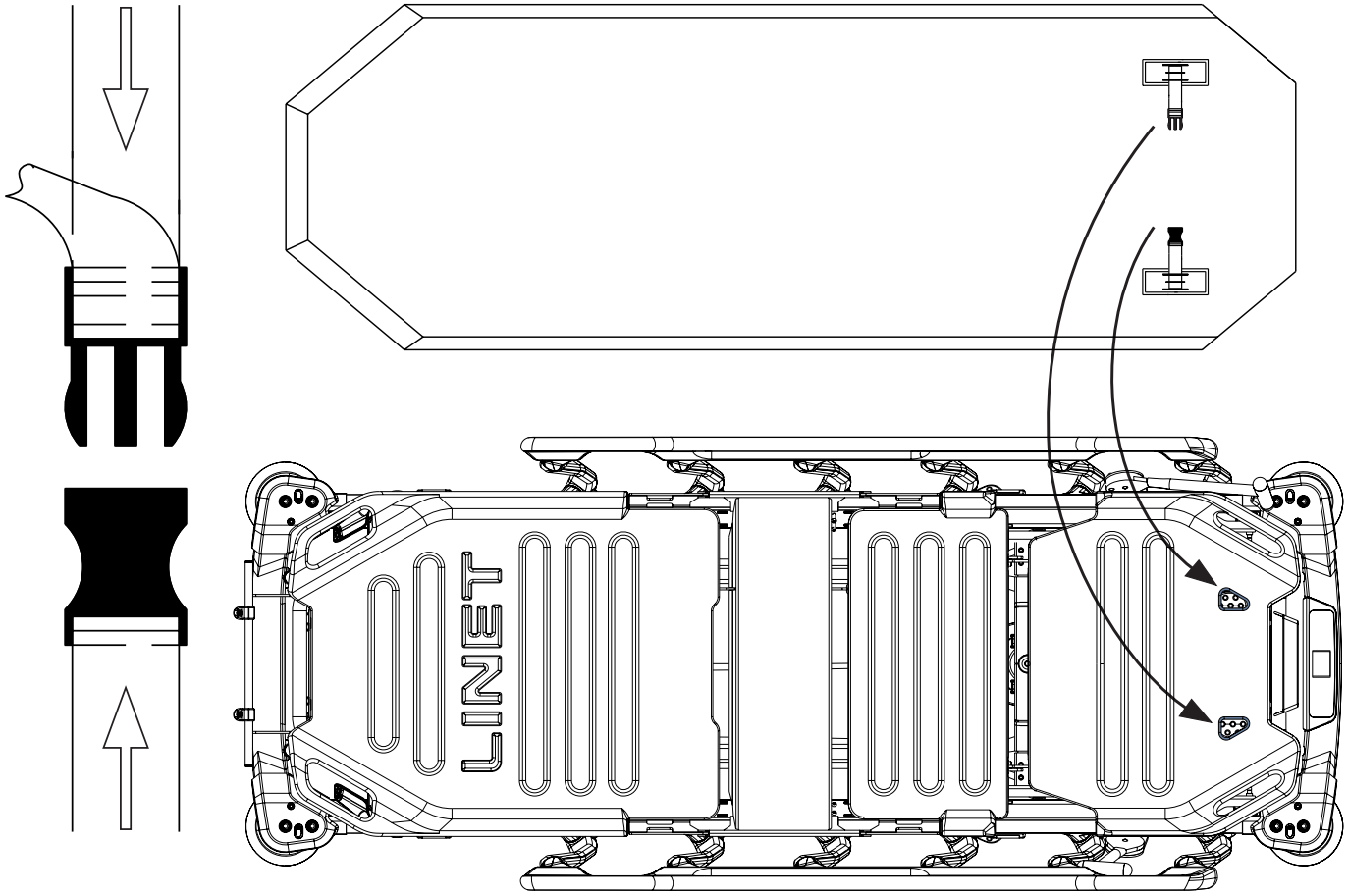


Fig. Fixation of mattress with straps on the Sprint 200 with 2-part mattress support platform

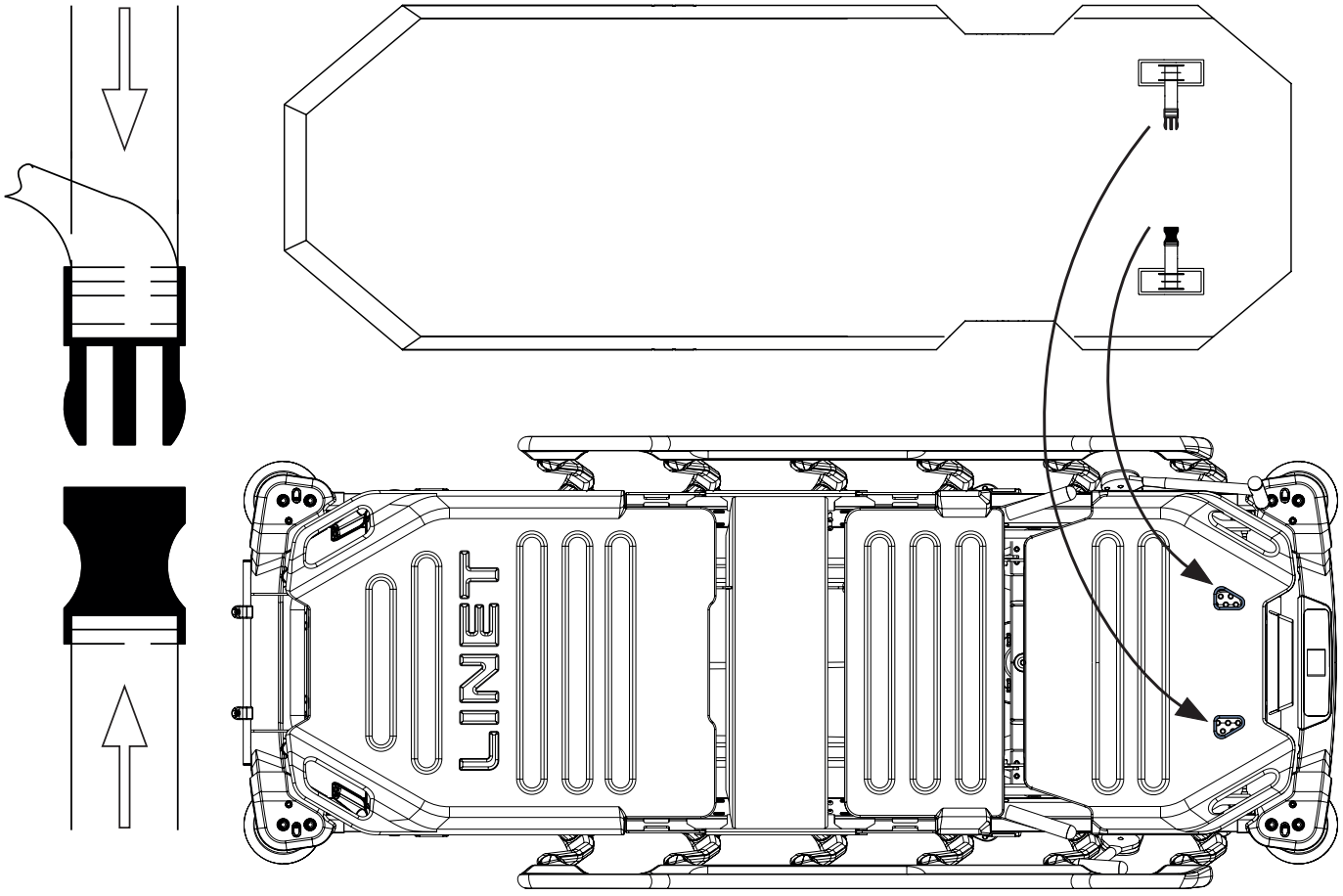


Fig. Fixation of mattress with straps on the Sprint 200 with 4-part mattress support platform

18.3 Mattresses Specifications

18.3.1 Sprint 200 with Standard Mattress Support Platform

MATTRESS FOR 2-PART STANDARD MATTRESS SUPPORT PLATFORM

Specification	Sprint 200 Standard	Sprint 200 Standard	Sprint 200 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 Pocket in Mattress Cover	✕	✕	Dimensions: 140 cm x 76 cm

Specification	Sprint 200 Advanced	Sprint 200 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 Pocket in Mattress Cover	Dimensions: 140 cm x 76 cm	Dimensions: 140 cm x 76 cm

MATTRESS FOR 4-PART STANDARD MATTRESS SUPPORT PLATFORM

Specification	Sprint 200 Standard	Sprint 200 Standard	Sprint 200 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 Pocket in Mattress Cover	✕	✕	Dimensions: 140 cm x 76 cm

Specification	Sprint 200 Advanced	Sprint 200 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 Pocket in Mattress Cover	Dimensions: 140 cm x 76 cm	Dimensions: 140 cm x 76 cm

18.4 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.

18.4.1 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

18.4.2 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.

18.4.3 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).

18.4.4 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.

18.5 X-ray Pocket 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 Pocket! 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 Pocket 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 Pocket.
► 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 Pocket 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 Pocket if x-ray examination should not be performed immediately.

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

Mattress Cover of the Sprint 200 Comfort, Sprint 200 Advanced and Sprint 200 Reactive mattresses could be equipped with X-ray Pocket.
The X-ray Pocket is accesible from the left side and from the right side of the compatible Sprint 200 mattresses.
The X-ray Pocket cannot be removed from the compatible mattress cover.
The X-ray Pocket 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 Pocket in the extent of the whole mattress support platform.

To take x-ray image of a patient in the Sprint 200 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 Pocket.
► Unfasten the toggle if more space is needed for inserting a compatible x-ray cassette into the X-ray Pocket.
► Insert the compatible x-ray cassette into the upper X-ray Pocket section for the chest x-ray or into the lower X-ray Pocket section for the pelvis x-ray.
► Perform the x-ray examination.

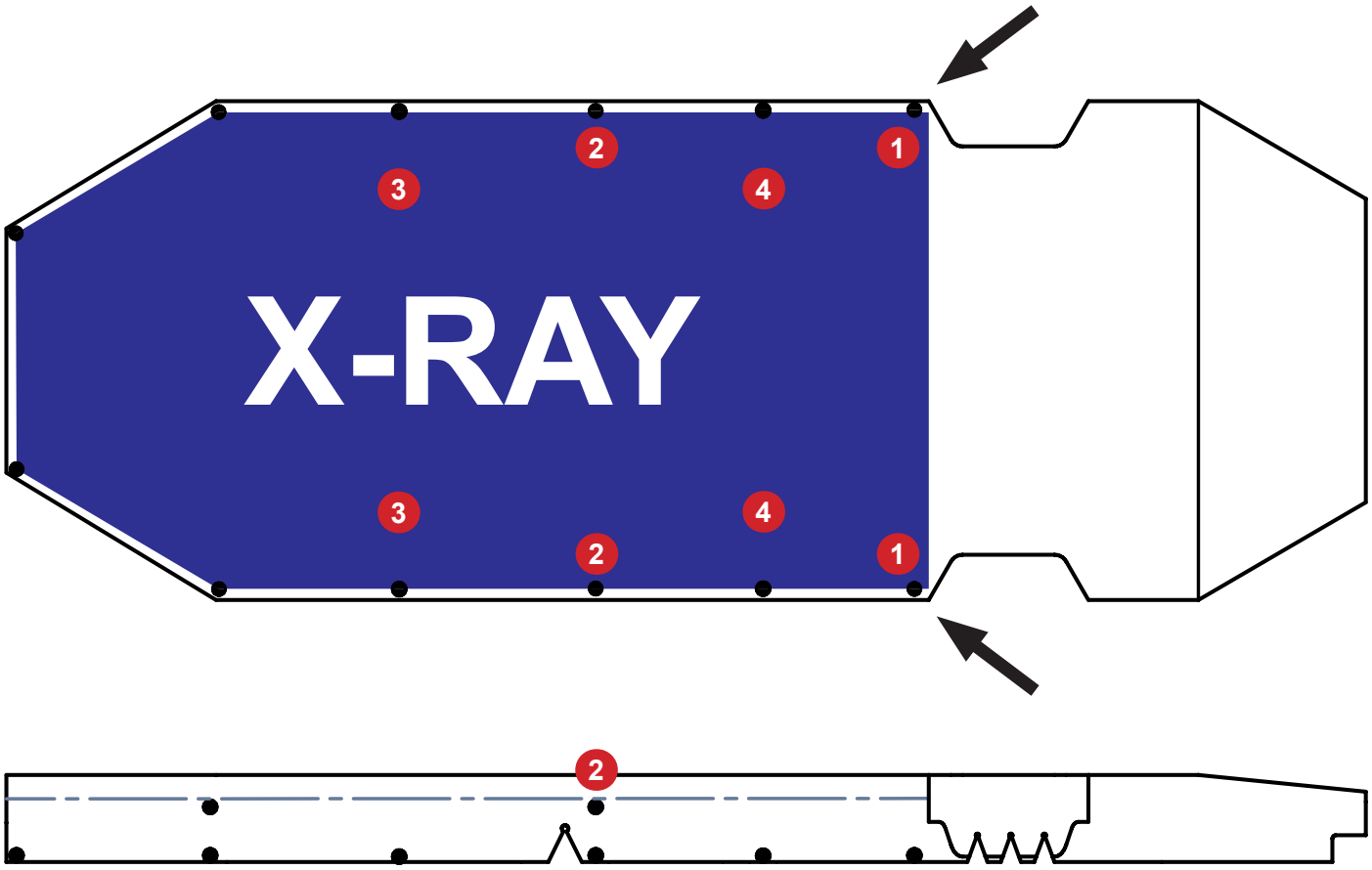


Fig. Description of the X-ray Pocket for 4-part Mattress Support Platform

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

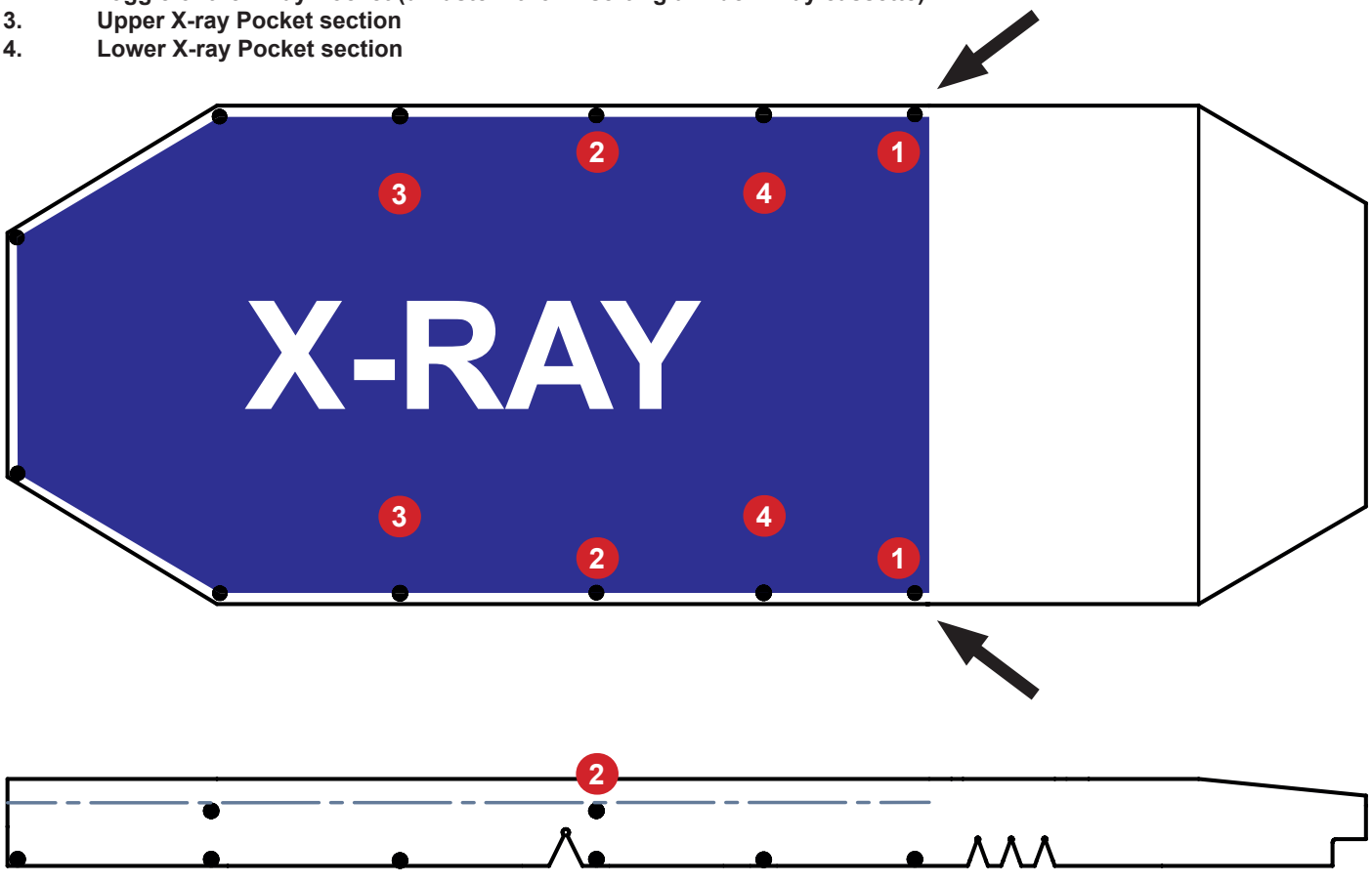


Fig. Description of the X-ray Pocket for 2-part Mattress Support Platform

19 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!

Compatible Accessories	Manufacturers and Identification Numbers	Accessory Mass	Compatible Configurations
			Sprint 200 with Standard Mattress Support Platform (2-part Mattress Support Platform and 4-part Mattress Support Platform)
Infusion Stand	MARO MADER: 4MAS6016306	1,16 kg	✔
Telescopic Infusion Stand	PROVITA MEDICAL: 4PV348405X00	1,87 kg	✔
Chart Holder	LINET: 102400000000	0,32 kg	✔
Monitor Shelf	LINET: 11026300A0009	7,33 kg	✔
Paper Roll Holder	LINET: 11013700A0001	2,1 kg	✔
Storage Box	LINET: 1106000080003	1 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	✔
Oxygen Bottle Holder for oxygen bottle with maximum dimensions 80 cm x 11 cm and minimum dimensions 36,5 cm x 10 cm	LINET: 11026300A0015	3,4 kg	✔

19.1 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 200 (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.

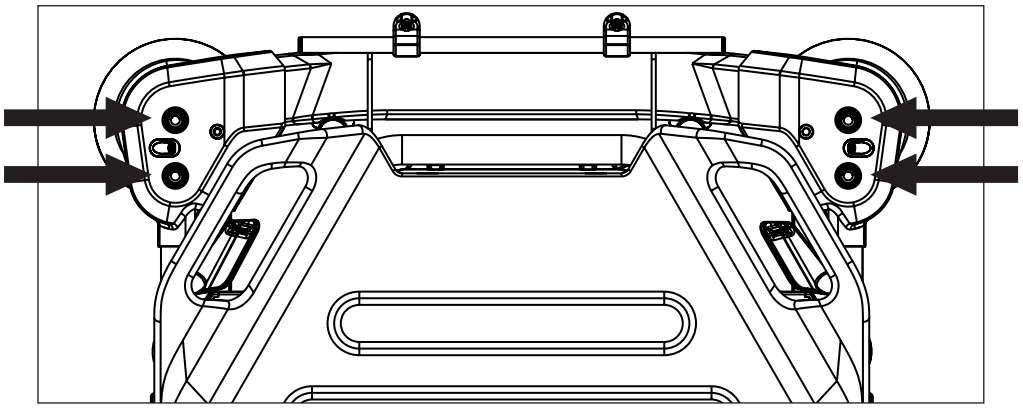


Fig. Positions for Infusion Stand

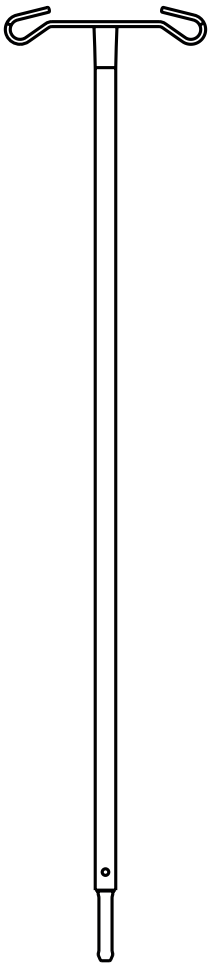


Fig. Infusion stand (at head end and foot end corners)

19.2 Telescopic Infusion Stand

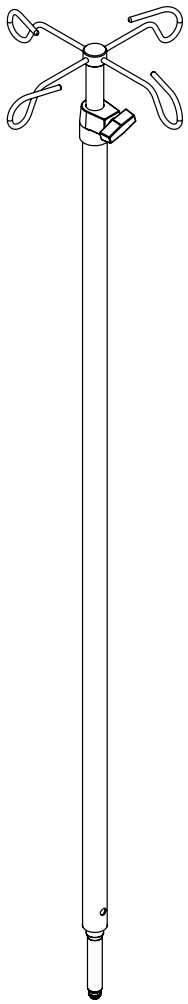


Fig. Telescopic Infusion stand (at head end and foot end corners)

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 200 (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.

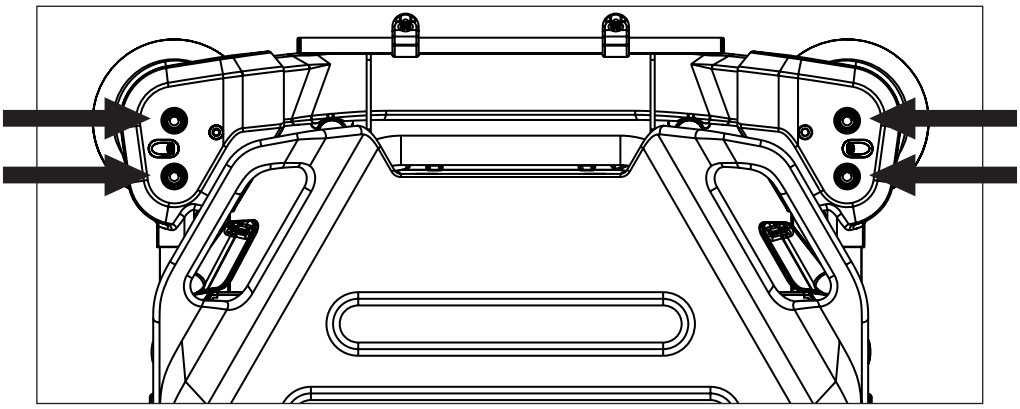


Fig. Positions for Telescopic Infusion Stand

19.3 Chart Holder

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.

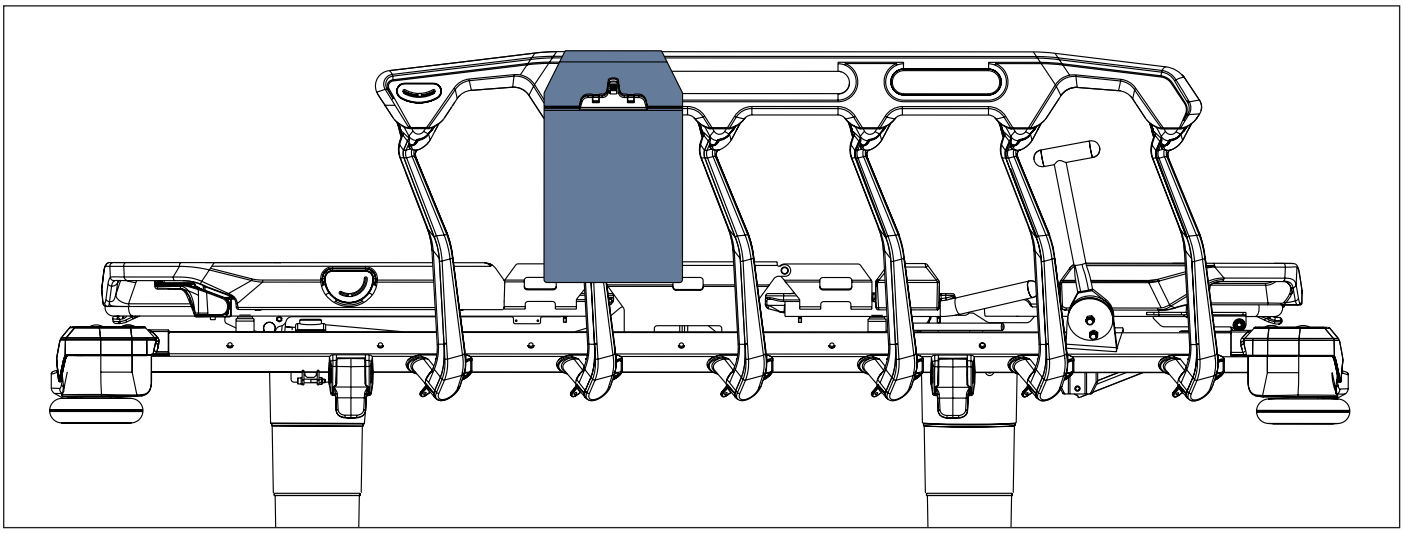


Fig. Position for Chart Holder

19.4 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.

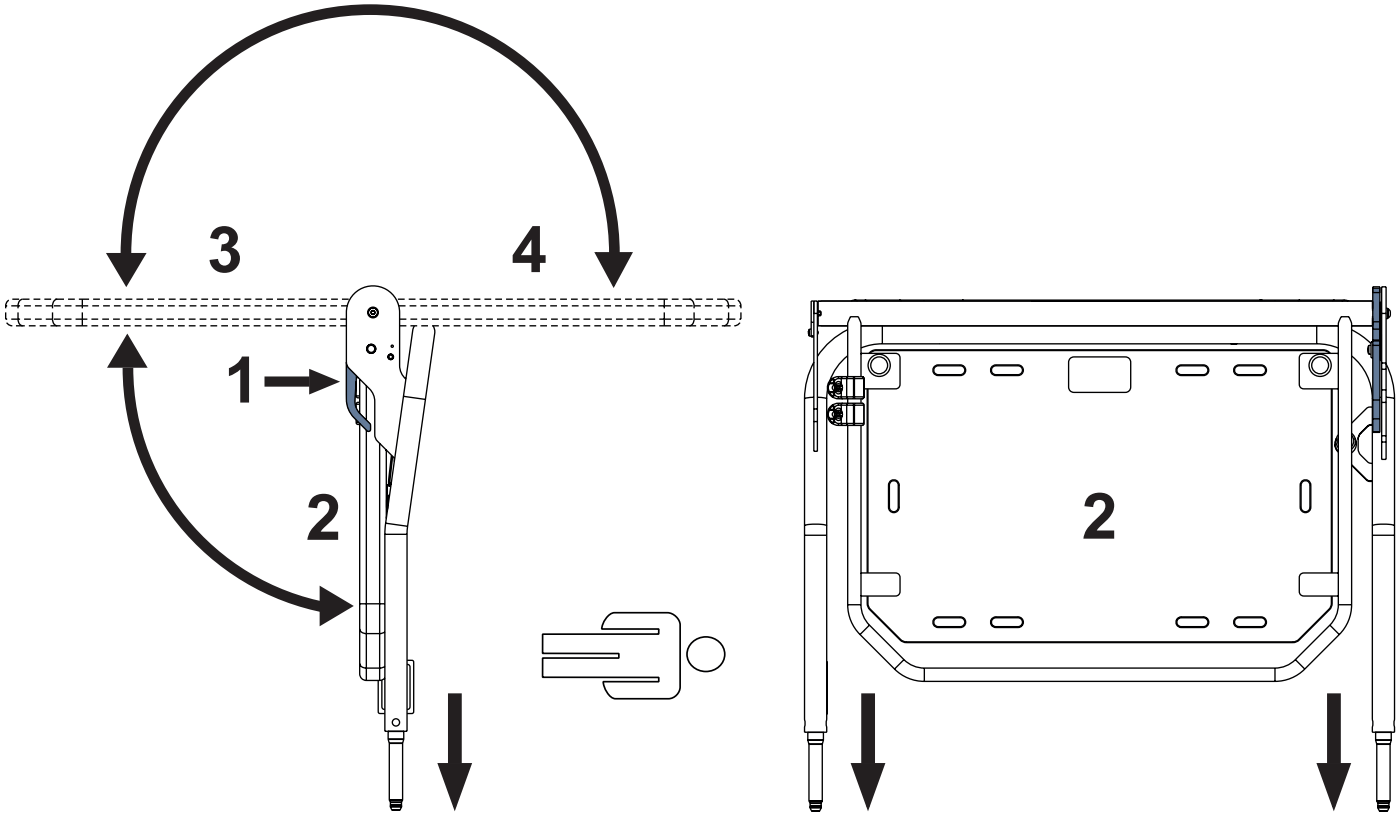


Fig. Monitor shelf (at foot end)

To change position of the board:

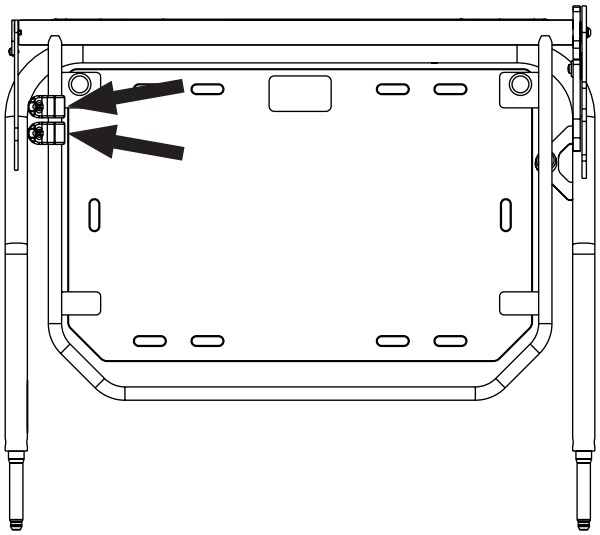
- ► Pull a control lever (**1**).
- ► Change position of the board.
- ► Release the control lever (**1**) in order to the control lever latches.
- ► Move the board up and down to ensure the board is fixed.

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!



19.5 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 200 configuration enabling the correct placement of the Paper Roll Holder.
Paper Roll Holder is not compatible with Sprint 200 with scales.
Paper Roll Holder must be located at foot end of Sprint 200.
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.

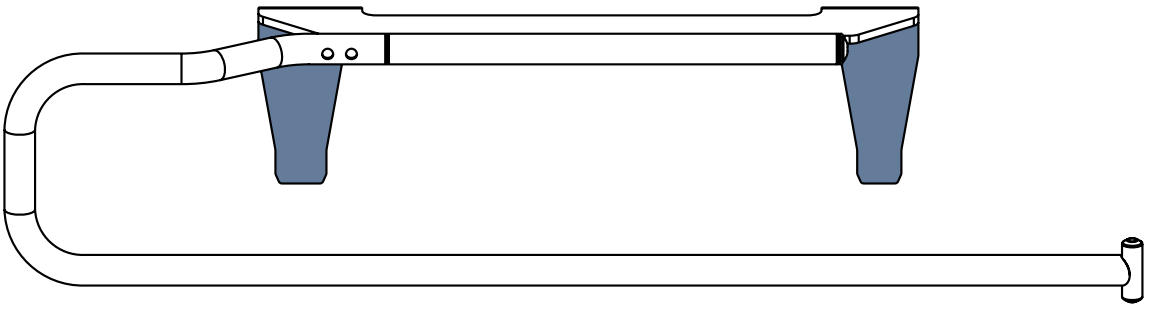


Fig. Paper Roll Holder with two nibs

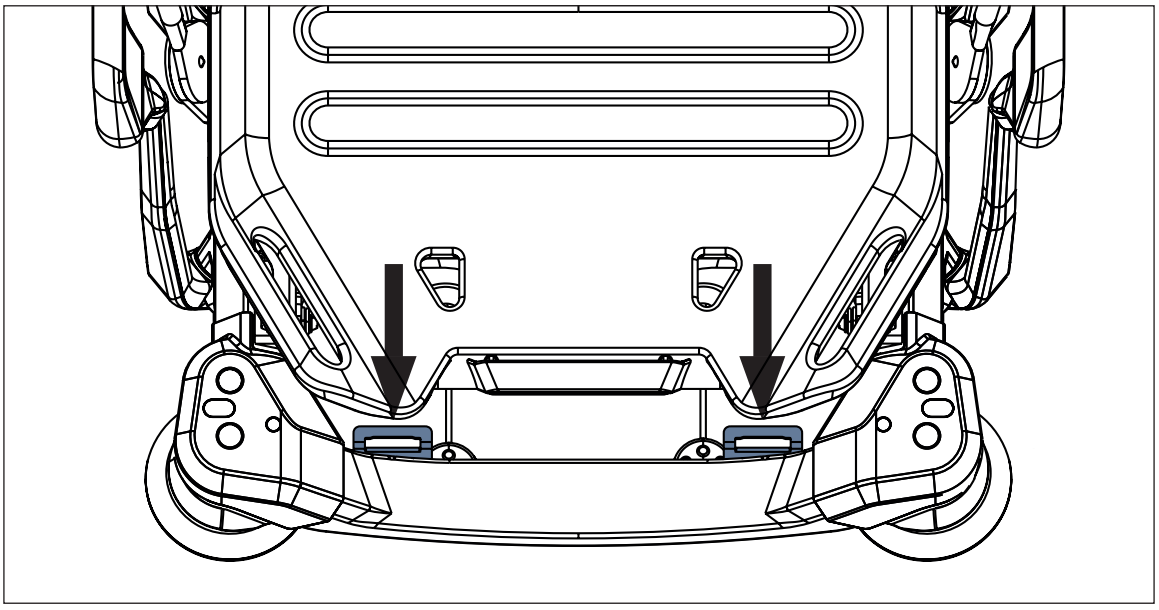


Fig. Two optional holders of the Paper Roll Holder

To insert the Paper Roll Holder to the optional holders at foot end of the Sprint 200:

► Insert both nibs of the Paper Roll Holder to both openings in the optional holders at foot end of the Sprint 200 carefully.
► Place the Paper Roll Holder on the foot end of the Sprint 200 carefully to prevent the Paper Roll Holder from falling on the Sprint 200.

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.

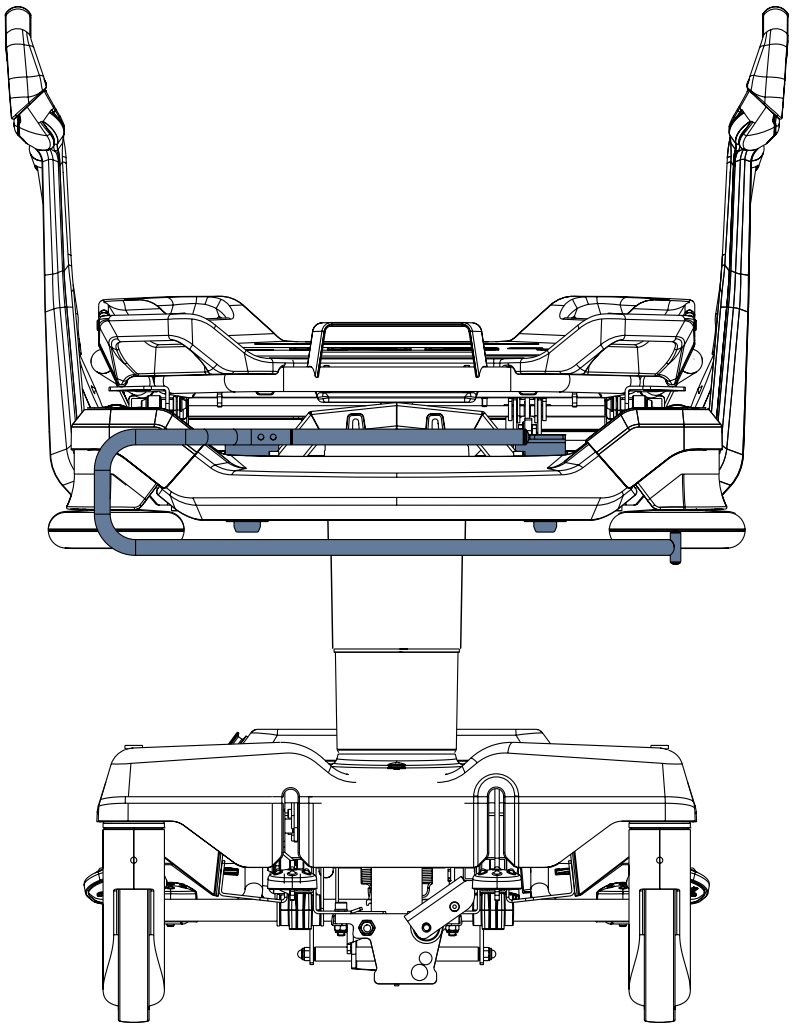


Fig. Paper Roll Holder (foot end)

19.6 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.

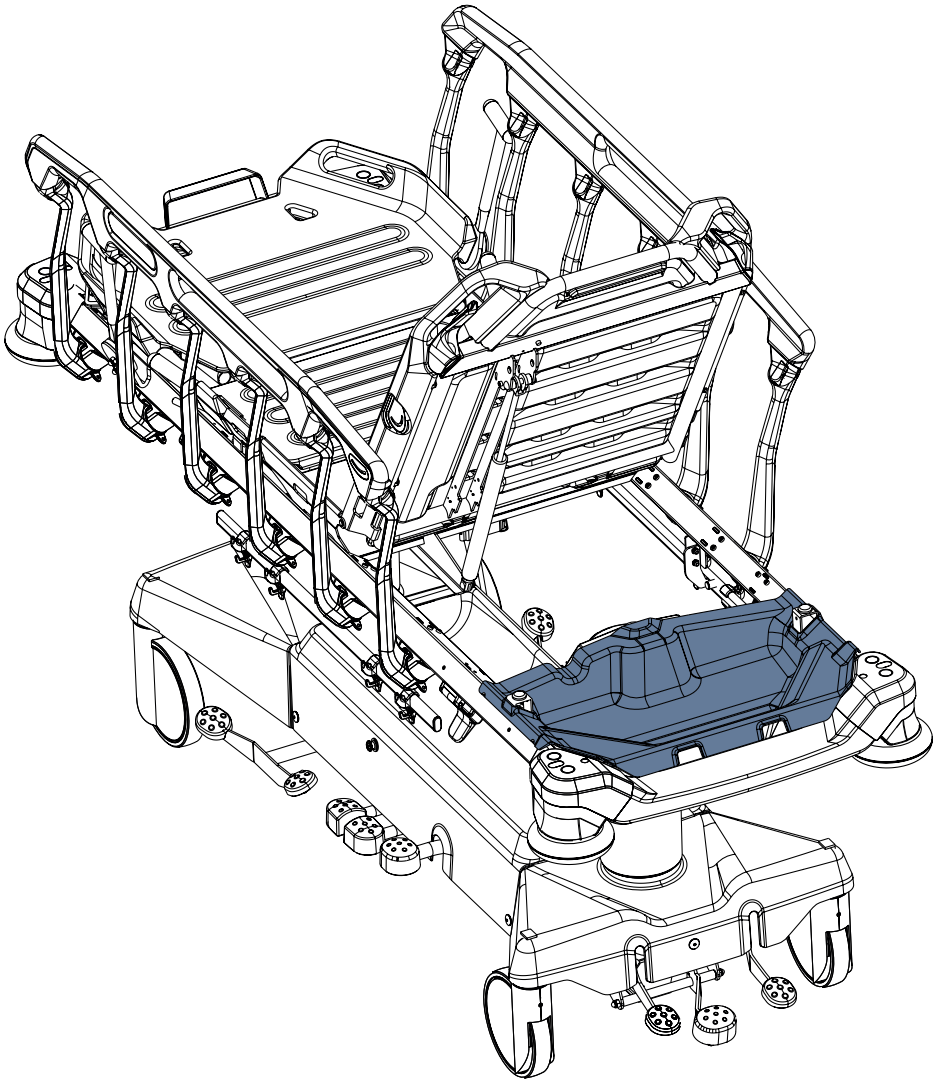


Fig. Storage Box (under the Backrest)

To clean the Storage Box:

► remove it from its place.

19.7 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 200 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 200 configuration enabling the correct placement of the Oxygen Bottle Holder.
Oxygen Bottle Holder with adapter is located at head end on the left.

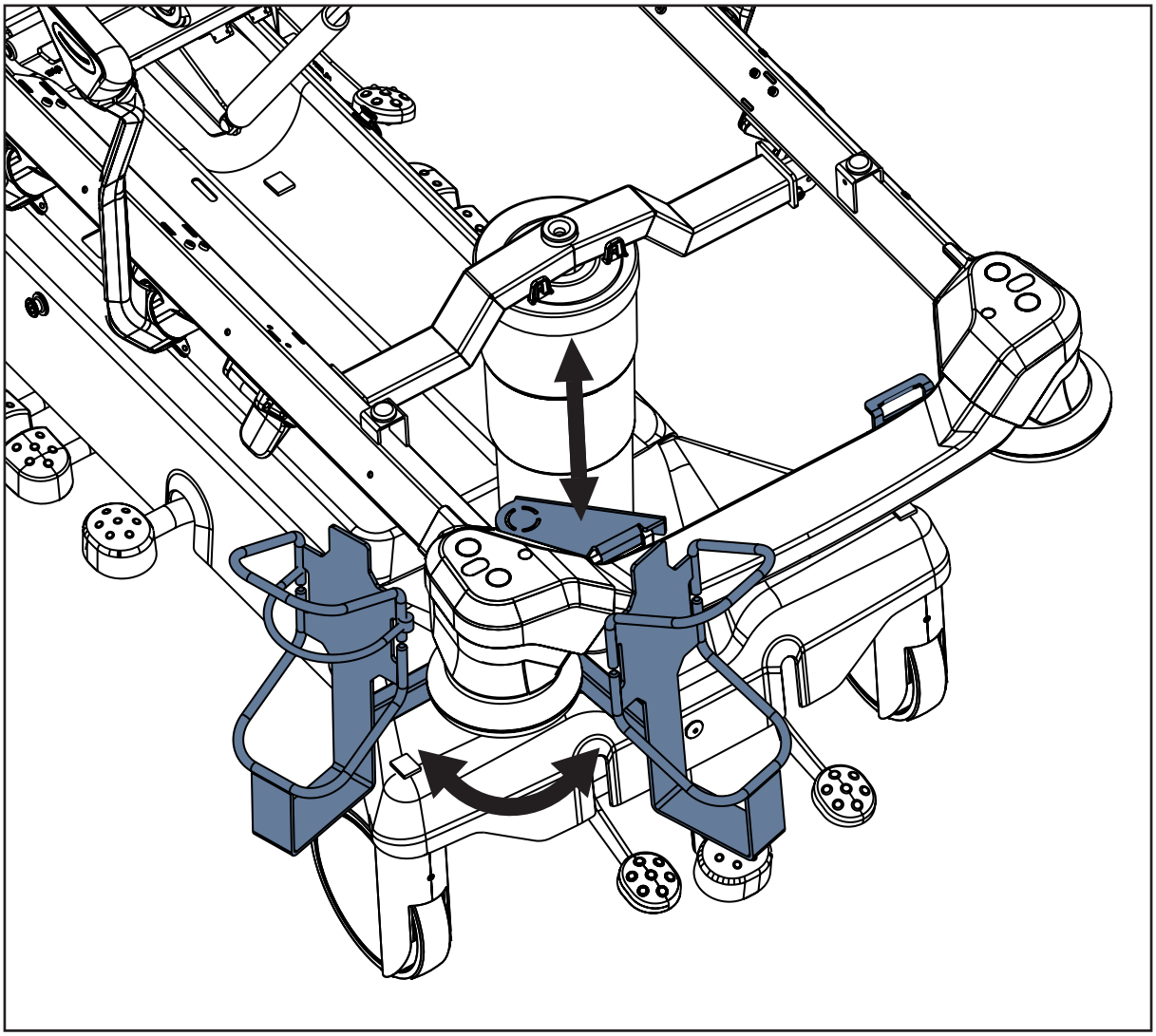


Fig. Two Positions of the Oxygen Bottle Holder at head end

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.

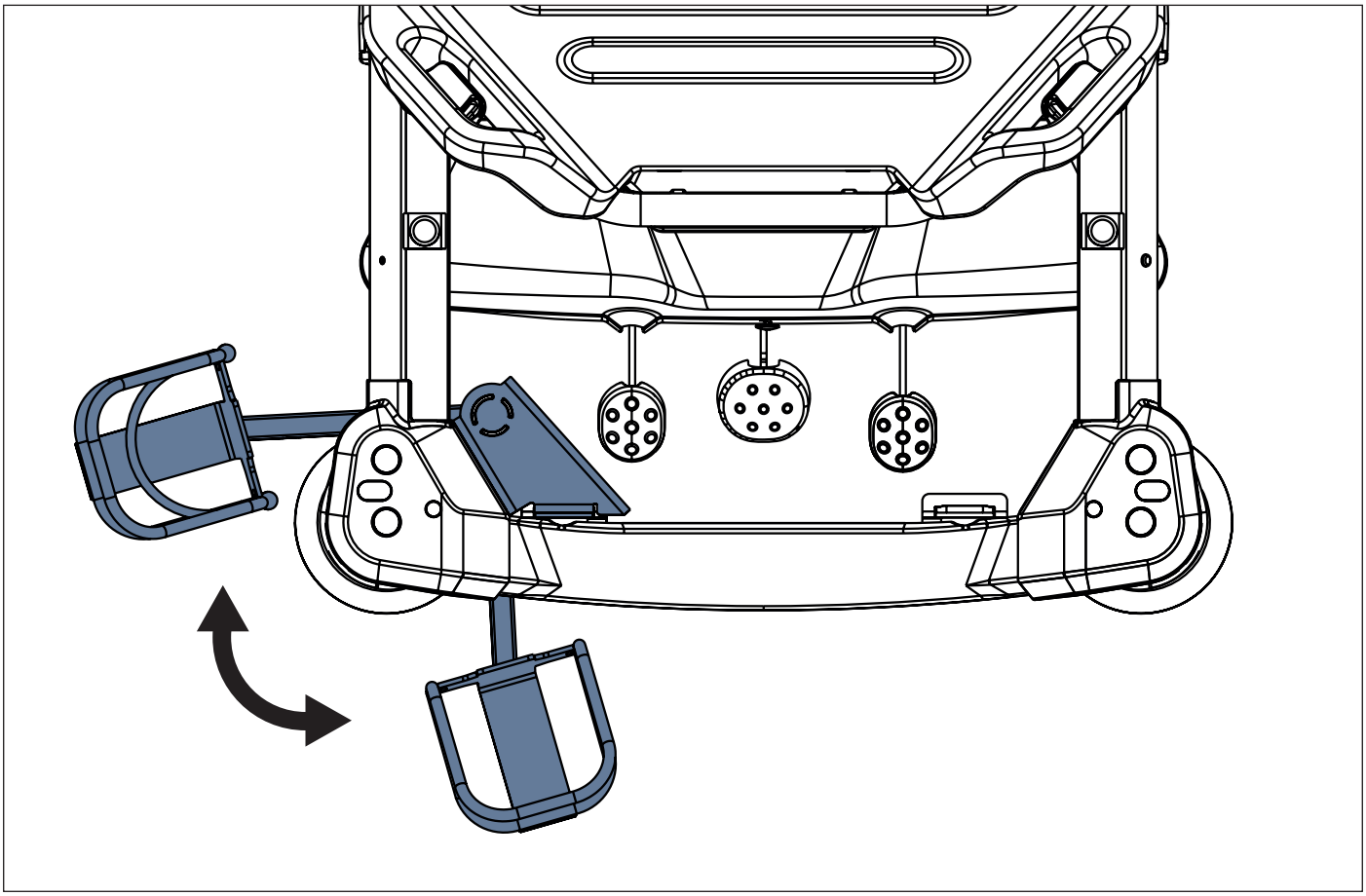


Fig. Two positions of the Oxygen Bottle Holder (at head end on the left)

20 Cleaning and Disinfection

WARNING!
Risk of injury due to incorrect preparation!
► **Ensure pedals will not be pressed accidentally during cleaning.**
► **Ensure the Sprint 200 with scales or with i-Drive Power is disconnected from the mains before cleaning the Sprint 200 with scales or with i-Drive Power.**

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 desinfection! 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 Do not clean what is not mentioned in this column!	MATERIALS (SURFACES OF THE MENTIONED STRETCHER COMPONENTS) Competent user is responsible for check if used cleaning agents and disinfectants are compatible with mentioned materials!
Stretcher ends (Head End and Foot End)	Polypropylene (PP) + Lacquered steel
Siderails	Polypropylene (PP) + Polyamide (PA) + glass fibers
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 (only Sprint 200 with scales or with i-Drive Power)	Ethylene-propylene rubber (EPR)
Scales Control Panel (only Sprint 200 with scales)	Autotex film + Acrylonitrile butadiene styrene (ABS)
Scales System LW20 Boxes (only Sprint 200 with scales)	Acrylonitrile butadiene styrene (ABS)
Cables (only Sprint 200 with scales or with i-Drive Power)	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.

20.1 Cleaning (Sprint 200)

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.

20.1.1 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

20.1.2 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

20.1.3 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

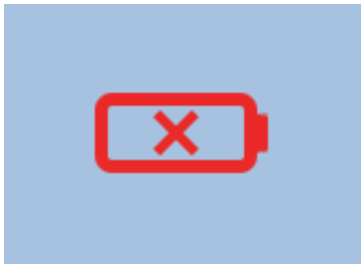
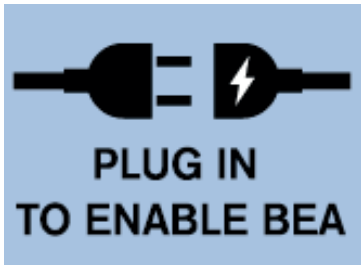
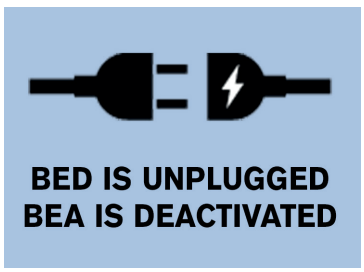
21 Troubleshooting (Sprint 200 without scales and without i--Drive Power)

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.

22 Troubleshooting (Sprint 200 with scales or with i-Drive Power)

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 200 with scales is disconnected from the mains.	Connect Sprint 200 with scales to the mains.
Scales and Bed Exit Alarm Monitoring Control Panel indicates no battery.	Incorrectly inserted batteries.	Replace the 4 batteries correctly.
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.	Disconnect Sprint 200 with scales from the mains and do not touch the Sprint 200 with scales.
Indicator of the stretcher disconnected from the mains is lit all the time.	Power Supply Cord is disconneted from the mains or from the Sprint 200 with scales.	Ensure the Sprint 200 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 200 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.

22.1 Pop-up windows

Status (Pop-up window)	Meaning	How to change the status
	Operator activates the Bed Exit Alarm Monitoring when battery is low.	Connect the Sprint 200 stretcher to the mains power and activate the Bed Exit Alarm Monitoring. Replace the 4 batteries.
	Operator activates the Bed Exit Alarm Monitoring when battery is critically discharged or disconnected.	Connect the Sprint 200 stretcher to the mains power and activate the Bed Exit Alarm Monitoring. Replace the 4 batteries.
	Sprint 200 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.
	Battery becomes low (or bad) during activated Bed Exit Alarm Monitoring.	Connect Power Supply Cord to the mains.
	Bed Exit Alarm Monitoring is activated and Sprint 200 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 200 with scales is overloaded.	Remove overload!

22.2 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

23 Maintenance (Sprint 200 without scales and without i--Drive Power)

WARNING!
Risk of injury when working on the stretcher!
► Ensure that the castors are locked prior to installation, putting into service, maintenance and deinstallation.

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.

23.1 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 regularly that all accessories are working properly.
► Replace damaged accessories immediately.

23.2 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

23.3 Safety Technical Checks

WARNING!
Risk of injury due to incorrect safety technical checks!
► Ensure that safety technical checks are performed exclusively by manufacturer´s customer service or by authorised service personnel certified by the manufacturer.
► Ensure that the safety technical checks are recorded in the service and maintenance log.

Safety technical check of the stretcher must be performed at least once every 12 months.

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

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 the equipment designated by the manufacturer as repairable by service personnel.

24 Maintenance (Sprint 200 with scales or with i-Drive Power)

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 200 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 Safety Technical Checks

WARNING!
Risk of injury due to incorrect safety technical checks!
► Ensure that safety technical checks are performed exclusively by manufacturer´s customer service or by authorised service personnel certified by the manufacturer.
► Ensure that the safety technical checks are recorded in the service and maintenance log.

Safety technical check of the stretcher must be performed at least once every 12 months.

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

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 (Sprint 200 without scales and without i-Drive Power)

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.
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.linet.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.

25.2.1 Within Europe

To dispose of the equipment:

- ► The 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!

LINET® participates in a collective system with take-back company REMA System (see **www.remasystem.cz/sberna-mista/**). 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 Disposal (Sprint 200 with scales or with i-Drive Power)

26.1 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.linet.cz**).

26.2 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.

26.2.1 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 (see **www.remasystem.cz/sberna-mista/**).
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.

26.2.2 Outside Europe

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

27 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 200 stretcher.

The warranty on this product and its conditions are dependent on the agreement between the buyer and the seller.

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.

28 Standards and Regulations

28.1 Sprint 200

Apllied norms are stated on Declaration of Conformity.

28.2 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)**