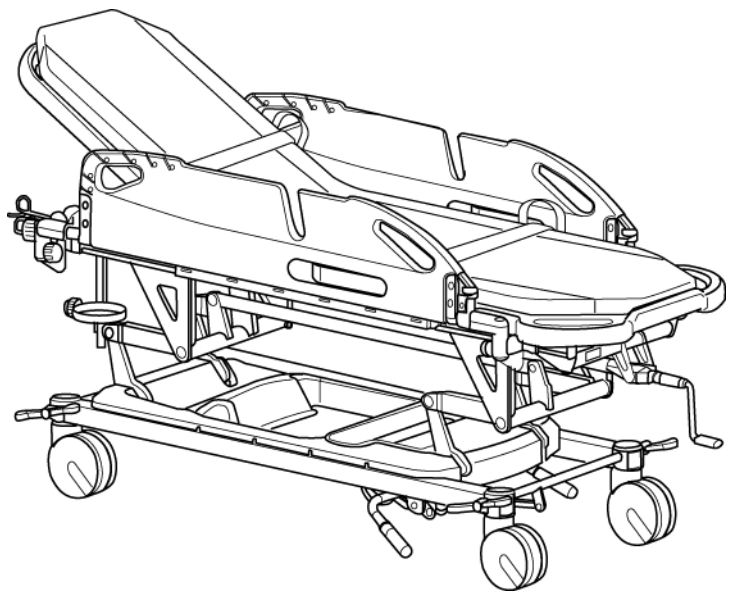


INSTRUCTION MANUAL

7F07181600A6

KK-728E, KK-738BE

Stretcher Trolley



Preface

Thank you for purchasing the Stretcher Trolley (hereafter referred to as the "stretcher").

This instruction manual describes precautions and how to safely use and operate the stretcher.

- **Before using this stretcher, please read this instruction manual to fully understand the safe and proper operating procedures.**
- After reading this instruction manual, store where it can be easily accessed for later reference.
- The actual stretcher purchased may differ from detailed descriptions given in this instruction manual due to product improvements.
- Values described for the operation range, dimensions, angles, and mass may include some errors. Excluding special cases, in this Instruction Manual for display purposes words such as approximately, about, etc. are omitted.
- Contact us (see "Contact Information" on page 30) for any queries.

PARAMOUNT BED CO., LTD.

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1 PART NAMES

KK-728E

Head end



p. 13
Backrest

Gas spring is used for the backrest lever.

p. 21
Transfer

p. 16
Restraint

p. 14-16
Transfer board

Back section base*

p. 20

IV Pole storage holder

IV Pole (C57E)

IV Pole attaching hole

Leg section base*

Main frame

p. 12

Height adjusting handle

p. 17

Accessory rail

p. 18-19

Oxygen cylinder holder

p. 10

Caster lock pedals

150 mm dia. TENTE MCS casters (central locking system)

Tray

Base frame

p. 11
Center wheel locking pedal

Foot end



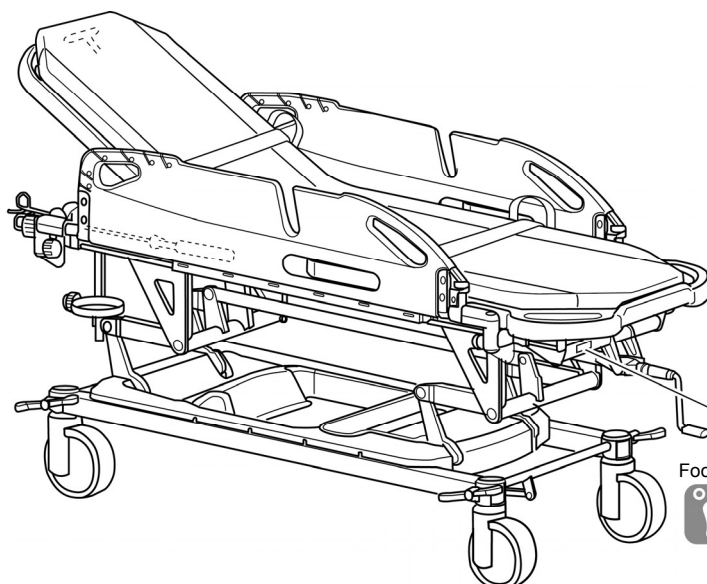
Product identification label

PARAMOUNT BED	14-5, 2-chome, Higashi-ura Koto-ku, Tokyo, Japan	EMERGO EUROPE	Prinsessegracht 20, 2514 AP The Hague, The Netherlands
NAME: Stretcher Trolley	MODEL: KK-728E	KT 728E	0016M
SN: 3903000 00001			
220kg	153kg	135kg	
2016-12	2016-12	2016-12	

- Affixed outside of the main frame.

KK-738BE

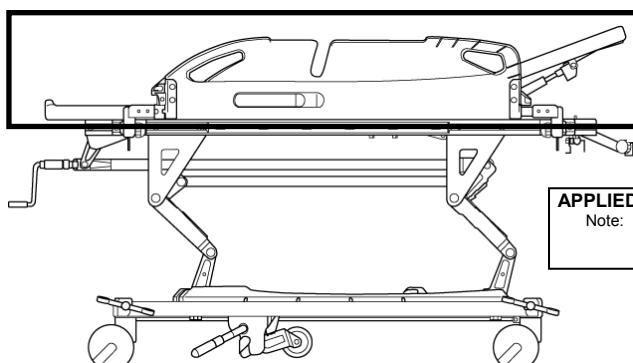
Head end



Product identification label

PARAMOUNT BED	14-5, 2-chome, Higashi-ura Koto-ku, Tokyo, Japan	EMERGO EUROPE	Prinsessegracht 20, 2514 AP The Hague, The Netherlands
NAME: Stretcher Trolley	MODEL: KK-738BE	KT 738BE	0016M
SN: 3903000 00001			
220kg	153kg	135kg	
2016-12	2016-12	2016-12	

- Affixed outside of the main frame.



APPLIED PART

Note: Part of ME EQUIPMENT that in normal use necessarily comes into physical contact with the patient for ME EQUIPMENT to perform its function.

2 INTENDED USE/SPECIFICATIONS

Intended use

- This stretcher is designed to be used in medical institutions to transport patients or support them as they receive treatment.

* Frequently used functions: Caster lock/unlock, transferring, change of transfer board position.

Specifications

Description		Stretcher Trolley	
Model No.		KK-728E	KK-738BE
Dimensions	Overall length (cm)	193	
	Overall width (cm)	66.3	
	Height of the upper surface of the base (cm)	51 to 85	52 to 86
	Back section base Inclination angle	0° to 70°	
	Casters	150 mm dia. Casters (with central locking system)	
	Center wheel	100 mm dia.	—
Product weight (kg) (not including the transfer mattress)		71	67
Maximum patient weight		135 kg	
Safe working load		1500N (153 kgf)	
Service life		8 years (based on Paramount data), excluding consumable items such as casters.	
Mattress	Dimensions (cm)	190 × 53 × 2	
	Surface material	Polyester	
	Padding	Urethane foam	
Materials	Frame	Steel/partially aluminum	
	Mattress base	Polypropylene (PP)	
	Transfer board	Polypropylene (PP)	
Capacity of compatible Oxygen cylinder		500 L (diameter 10 cm to 11.5 cm)	
Accessories		IV Pole (C57E) Load capacity: 1 kg/hook	
		Oxygen cylinder holder Load capacity: 15 kg	
		Hook (3K003355: 4 pieces) Load capacity: 3 kg/piece	

* Safe working load: Maximum weight that the stretcher can safely accept (the total load of the patient's weight and incidental items including the mattress and other options)

Environmental conditions	Range	
	■ During transportation or storage	■ During operating
Temperature	-10°C to 50°C	0°C to 40°C
Humidity	30%RH to 90%RH	30%RH to 90%RH
Atmospheric pressure	700hPa to 1060hPa	700hPa to 1060hPa

- Essential performance
Function to support and transfer the body of patients

- Applicable standards

The hospital electric bed described in this instruction manual is designed and manufactured according to the following equipment classification and standards.

Applicable standards: IEC60601-1:2005 + A1:2012

EN60601-1:2006 + A12:2014



Classification according to Directive 93/42/EEC: Class I



3 SAFETY PRECAUTIONS

■ Be sure to read these safety precautions beforehand to ensure proper usage.

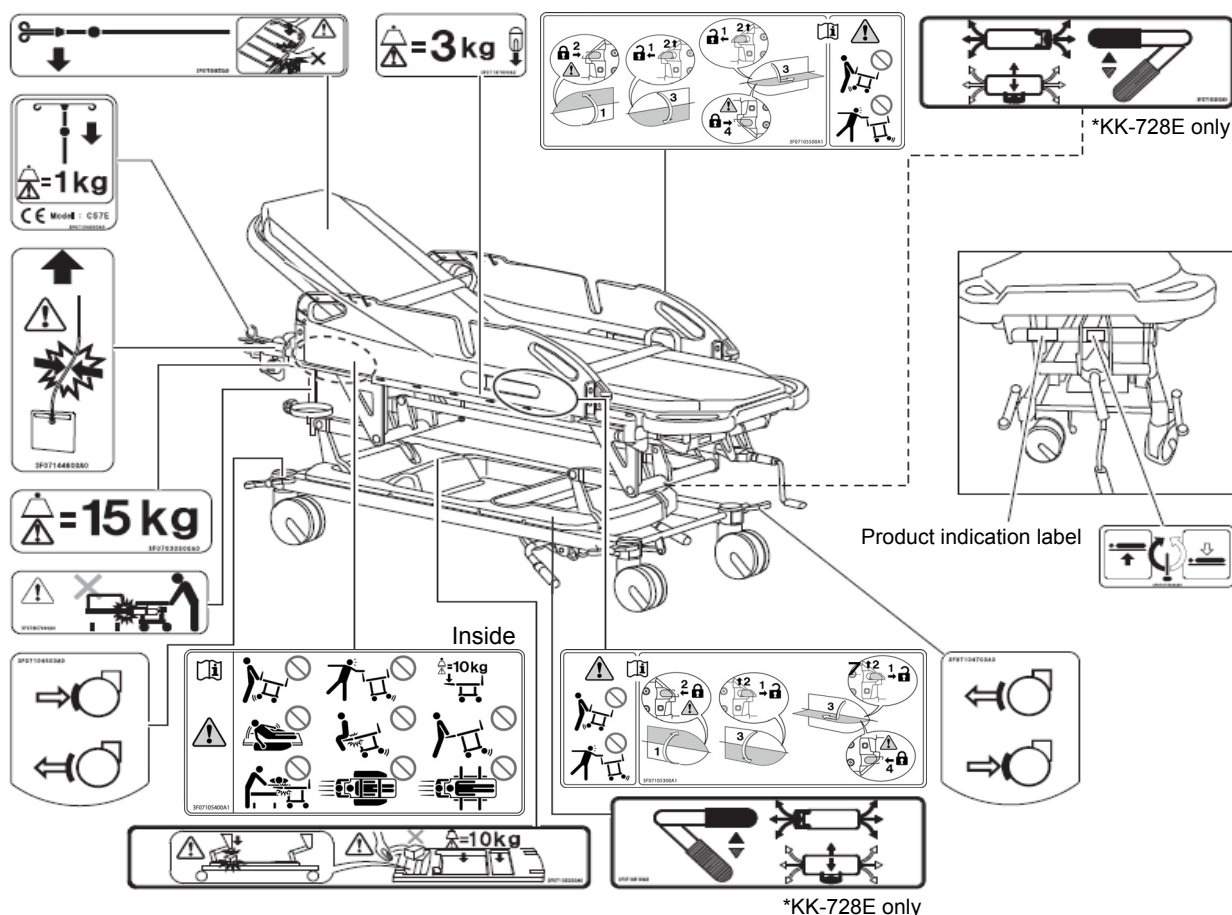
- The safety precautions described here are intended to ensure safe use of the product and prevent personal injury and property damage. Precautions are classified by a WARNING or CAUTION designation, which indicates the degree of hazard or injury that could result from improper use. **Both are important safety precautions that must be strictly observed.**

 WARNING	Indicates that improper handling by ignoring this indication could cause death or serious injury (broken bones, pressure, or paralysis).
 CAUTION	Indicates that improper handling by ignoring this indication could cause light personal injury (bruises, wounds, or cuts) or property damage.

Note: After reading this instruction manual, store it in a place that can be easily accessed for later reference.

[Safety Label]

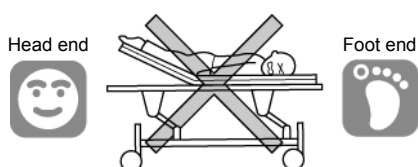
- Precautions requiring special attention by persons using the stretcher are described on labels and affixed to the following locations. Do not remove or deface any labels.
- If the safety label is removed or defaced, replace the part to which the label is affixed. Contact Paramount Bed or your distributor (see "Contact Information" on page 30) for any queries.



3 SAFETY PRECAUTIONS

WARNING

■ Place the patient on the stretcher with his/her head and feet oriented in the proper directions.



- Have the patient lie down on the stretcher with his/her head positioned at the head end of the stretcher and feet at the foot end. If the patient lies down the other way, he/she could accidentally release the lock for the transfer board, which could cause him/her to fall off and get injured.
- Lying down on the stretcher with the feet at the head end and the head at the foot end induces an unnatural posture during stretcher operation (mattress base angle) which may result in injury.

■ Do not raise the backrest when a patient is lying face down or on their side (in any posture other than lying face up).

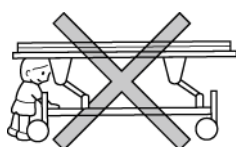
- Attempting to force the patient to bend his/her legs, arms, or other bendable body parts too far or hard or in the wrong direction could cause him/her to become injured.

■ Do not stand up on the stretcher.



- There is a risk of injury caused by falling or toppling from the stretcher. In particular, be careful with children.

■ Do not crawl under or place your head, hands, or legs under the stretcher.

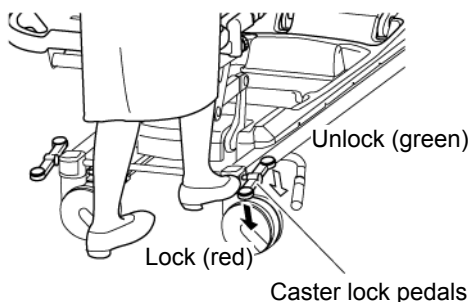


- There is a risk of becoming caught between the moving part of the stretcher and the frame or transfer boards, resulting in injury. Check that obstacles are not located around the stretcher before operating it.

■ Be careful when moving the stretcher on a steep slope.

- The stretcher could tip over, causing an injury. Eliminate this risk by having more than two people work together to move the stretcher or using other means as the circumstances require.

■ Lock the casters at all times except when moving the stretcher.



- Otherwise, the stretcher could unexpectedly move when operators attempt to transfer a patient to or from a bed, adjust the height, or raise the backrest, which could lead to injury.
- To move the stretcher, depress the caster lock pedal (green) to unlock the casters.

■ Do not stand on the caster lock pedals.

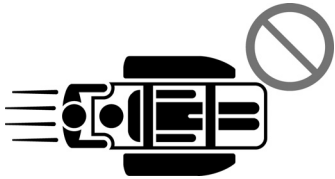
- The stretcher may tip over causing an injury or the stretcher may break.

⚠ WARNING

■ **Do not attempt to repair or modify the stretcher yourself.**

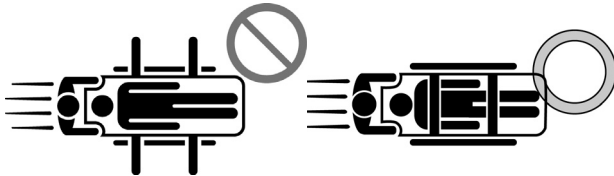
- This could cause abnormal operation, resulting in injury.

■ **Do not attempt to transfer a patient on the stretcher with the transfer boards locked in the horizontal level position.**



- The patient may fall off, the stretcher may tip over, or the patient's hand may hit the wall, resulting in an injury.
- The stretcher may tip over causing an injury or the stretcher may break.

■ **When transporting a patient, make sure that he/she is secured in place with the two pairs of restraint belts and that the transfer boards are in the up position. The nurse should observe and attend to the patient at all times while the patient is on the stretcher.**



- Otherwise, the patient may fall off the stretcher and get injured.
- The stretcher may tip over causing an injury or the stretcher may break.

■ **Make sure that the two pairs of restraining belts are being used to firmly and securely secure the patient if using it with the two transfer boards locked in the horizontal level position.**

- Otherwise, the patient may fall off the stretcher and get injured.
- The stretcher may tip over causing an injury or the stretcher may break.

■ **Do not transfer a patient to a bed with the transfer boards locked in the horizontal level position.**



- Otherwise, the patient may fall off the stretcher and get injured.
- The stretcher may tip over causing an injury or the stretcher may break.

■ **After raising the transfer boards or locking them in the horizontal level position, use the safety lock and confirm that they are properly locked (Green in the indicator window).**

- If not properly locked (red shows), the transfer boards may lower and the patient may fall off and get injured.

■ **Instruct patients not to hold onto the transfer boards while being transferred or while the transfer boards are being adjusted.**

- The patient's hand may hit the wall during transport or get caught during the operation of the transfer boards, resulting in an injury.

3 SAFETY PRECAUTIONS

WARNING

■ Do not sit on the transfer boards or lean against them.



- The stretcher may tip over, resulting in an injury or stretcher damage.

■ Do not use the transfer board as a support to stand up.



- Otherwise, the patient may fall off the stretcher and get injured.
- The stretcher may tip over causing an injury or the stretcher may break.

■ Do not use the transfer mattress as a stretcher.



- Using the transfer mattress as a stretcher may damage it, resulting in an injury.

■ Do not use the stretcher in a strong electromagnetic field such as near a MRI.

- Using the stretcher in such an area may cause abnormal operation which may result in an injury or stretcher damage or deformation.

■ Keep away from heaters.

- Do not use heaters near the stretcher. Otherwise, the stretcher may be damaged or deformed, or even catch fire.

■ Use care when handling the gas spring.

- Gas spring is used for the backrest lever. If you attempt to disassemble or incinerate the gas spring, the gas spring could explode and gas could spray out, possibly causing injury.

■ Inspect the stretcher regularly.

- Depending on the frequency of use and the environment, the product will exhibit wear and deterioration. Regularly inspect for parts looseness, the operation of moving parts, and the presence of damage (see p. 27).

■ For accessories to be directly mounted on the stretcher, such as an IV Pole or mattress, use only accessories approved by Paramount Bed.

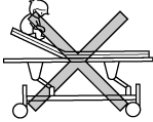
- The use of products other than the specified suitable products or products from other companies could create unintended gaps, cause interference between products, or lower stability, resulting in injury or failure of the stretcher.

■ Do not grab the stretcher or lean against them.

- The stretcher may tip over causing an injury or the stretcher may break.

⚠ CAUTION

■ Do not climb on the back section base in the raised position.



- The back section base is subject to excessive weight, and could be damaged or deformed.

■ Do not move the stretcher by holding onto the transfer board only.

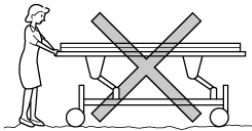


- Otherwise, this will apply a large force to the transfer board and there is a risk of damage or deformation.

■ Do not place objects weighing more than 10 kg on the transfer board in the horizontal level position.

- Doing so could cause an injury, malfunction, or deformation.

■ Avoid transporting the stretcher over uneven floors.



- It may result in stretcher damage, deformation, or malfunction. If this is unavoidable, move the stretcher as slowly as possible.

■ Do not excessively turn the height adjusting handle.



- If the handle is continuously turned until it reaches its limit, it will suddenly become heavy. Do not turn the handle beyond its working range. Forcibly turning the handle beyond its working range may result in handle damage or malfunction.

■ When the stretcher is not in use, store it with the casters facing in.

- Otherwise, people may trip over a caster and fall down or get injured.

■ Do not place objects weighing 10 kg or more on the tray.

- The tray could be deformed or damaged.

■ Do not place objects on the area marked with “X” (see the following figure) on the tray. Also, be careful not to allow objects to protrude outside the tray.



- When the stretcher height is lowered, objects on the tray or the tray itself could be caught between the frame and tray, causing damage or deformation.

■ To wash the transfer mattress, take out the padding and wash the surface material only.

- Otherwise, the surface material and padding may get damaged.

■ Do not apply a spray-type insecticide directly on the stretcher.

- Otherwise, there is a risk that the solvents contained in the insecticide could damage, discolor, or dissolve the stretcher casters or other resin parts. Pay due attention to this; otherwise, there is a risk of unexpected injury due to damaged or dissolved parts.

4 PRECAUTIONS FOR USAGE

■ To avoid possible malfunctions, do not install the stretcher in the following locations.

- Locations exposed to direct sunlight
- Locations with strong electromagnetic fields (near MRI machines, etc.)
- Locations near heat sources such as a stove or heater
- Location having a high oxygen concentration
- Locations exposed to excessive amounts of water vapor or oil vapor
- Locations that tend to be exposed to high temperatures or humidity, low temperatures or dry conditions
Note: The optimum ambient conditions for the stretcher are as follows.
Temperature 0°C to 40°C / Humidity 30%RH to 90%RH
- Locations with high concentrations of dust, smoke, salt, sulfur, or corrosive substances
- Locations with poor ventilation (while storing, etc.)
- Locations exposed to vibrations or shocks (including during transportation)
- Locations where the floor is weak
- Locations where the floor is not level

5 OPERATION PROCEDURES

1. Caster (Central locking system)

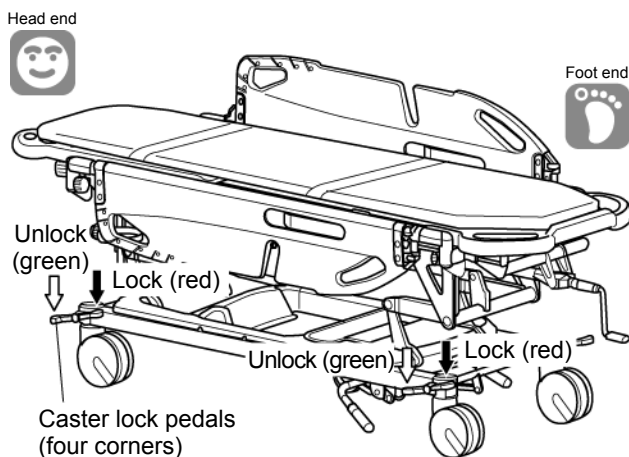


WARNING

- Lock the casters at all times except when moving the stretcher. Otherwise, the stretcher may move when transferring a patient to or from a bed, adjusting the height, or raising the backrest, causing an unexpected injury.
- Do not stand on the caster lock pedals. The person may tip over, resulting in an injury or stretcher damage.

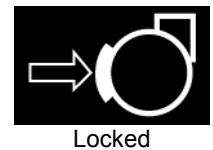
Central locking system

- All four casters can be locked (swivel and rotation are locked at the same time) or unlocked by operating only one caster lock pedal.
- Caster lock pedals are located at the four corners of the stretcher, allowing them to be operated at each side of head and foot ends.



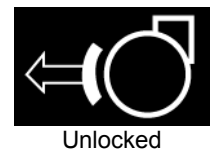
To lock the casters

- Depressing the caster lock pedal (red) locks the swiveling and rotation of all four casters at the same time.



To unlock the casters

- Depressing the caster lock pedal (green) unlocks all four casters.



CAUTION

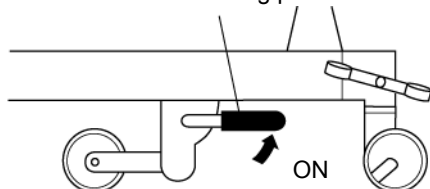
- Do not attempt to forcibly move the stretcher when the casters are locked (fixed). It may result in malfunction.
- Do not operate the caster lock pedals when transporting a patient. It places a load on the casters resulting in malfunction.

5 OPERATION PROCEDURES

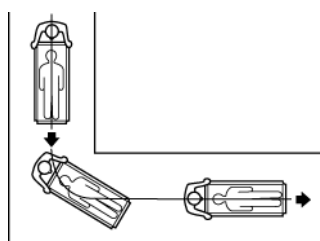
2. Center wheel system (KK-728E only)

- Moving the center wheel located at the base center of the stretcher to be in contact with floor improves cornering, tracking, and allowing stable steering of the stretcher.

The center wheel locking pedal



When the center wheel is in contact with floor



When the center wheel is ON

- Raising the center wheel locking pedal sets the center wheel to ON for better cornering, tracking, and steering. This mode is convenient for moving over relatively long distances, such as between patients' rooms.

■ When cornering

- The turning radius of the stretcher is small, thus offering easy directional control and minimizing the force needed to push the stretcher. This allows for quick movement.

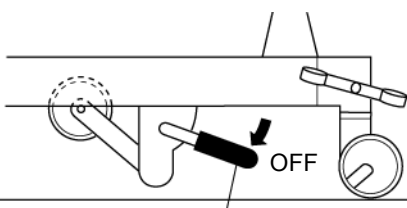


WARNING

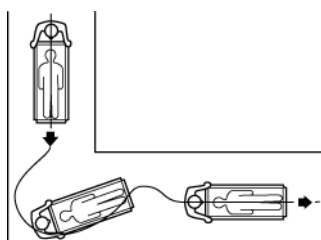
- Do not move too fast when cornering. The stretcher may tip over, resulting in an injury.

When the center wheel is OFF

- Depressing the center wheel locking pedal sets the center wheel to OFF to allow the stretcher to move in any direction (including sideways). This mode is convenient for moving short distances, such as moving within a room.



The center wheel locking pedal



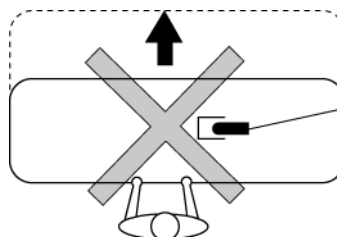
■ When cornering

- The stretcher rotates when cornering, requiring the person pushing to move around when cornering, and also requiring force to restrain the stretcher.



CAUTION

- Do not attempt to forcibly move the stretcher sideways when the center wheel is ON because it may result in malfunction. To move the stretcher sideways, set the center wheel to OFF.

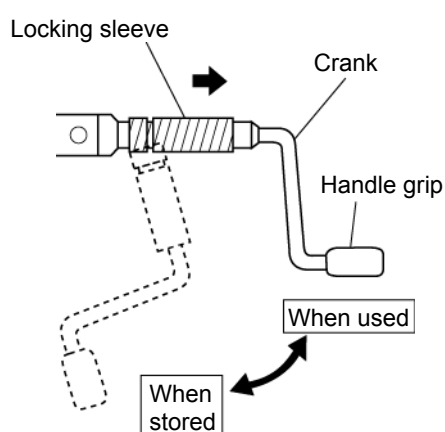
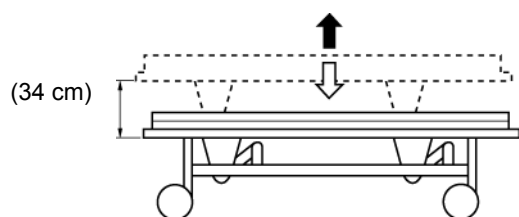
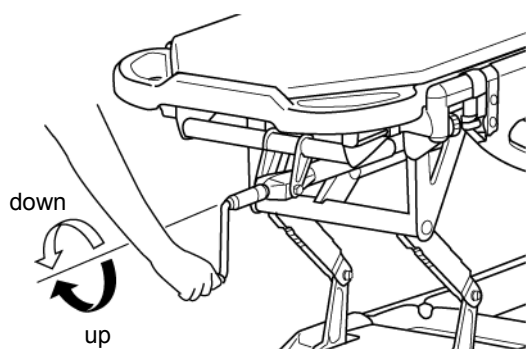


Center wheel is ON.

- Do not stand on the center wheel locking pedal. Doing so could cause damage, deformation, or a malfunction.

3. Height adjustment

- The height of the stretcher can be adjusted with the height of a bed by operating the height adjusting handle.



Height adjustment (Max. adjustable height: 34 cm)

- Turn the height adjusting handle clockwise to raise the stretcher and turn counterclockwise to lower it.



- **Lock the casters prior to height adjustment. Otherwise, the stretcher may move during the adjustment, resulting in an injury.**



- **The height adjusting handle suddenly becomes heavy when it is turned close to the limit. Do not turn the handle over the operating range. Turning the handle forcibly over the range may result in damage or malfunction.**
- **Do not put a leg on the handle because it may result in damage or malfunction.**

To store the height adjusting handle

- Hold the locking sleeve, pull towards you, and press down to store.

To use the height adjusting handle

- Hold the crank and pull up. The locking sleeve will automatically be locked to enable operation.



- **Be sure to store the handle when not using it. Otherwise, it could catch on a person's leg, causing injury.**

5 OPERATION PROCEDURES

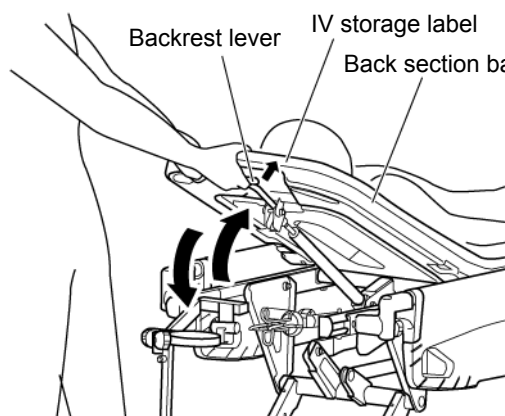
4. Raising the backrest

■ The back section base angle can be adjusted at any degree from 0° to 70° using a lever.



WARNING

- When raising the backrest, be sure to lock the casters. Otherwise, the stretcher may move during operation, resulting in an injury.
- When raising the backrest, unfasten the two pairs of restraint belts (see p. 16). Otherwise, the patient may get injured.
- After raising the backrest, secure the patient with the two pairs of restraint belts. Otherwise, the patient may fall off and get injured.



To raise

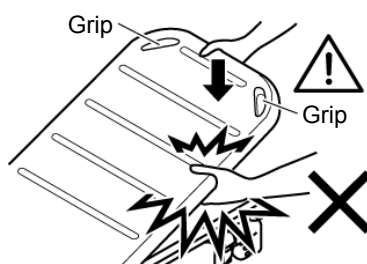
- Hold the grip of the back section base with one hand, hold the backrest lever on the back section base with your other hand, and pull the back section base up. The back section base rises due to gas spring pressure. Let go of the backrest lever to lock the back section base in position.

To lower

- Hold the grip of the back section base with one hand, hold the backrest lever on the back section base with your other hand, and lower the back section base supporting its weight. Let go of the backrest lever to lock the back section base in position.



CAUTION

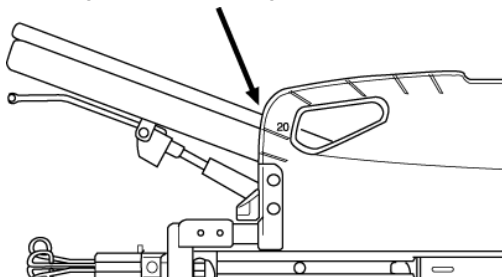


- When lowering the back section base, hold the grip of the back section base with the hand that is not holding the backrest lever. Holding other parts may cause an injury because the operator's hands or fingers may get caught.

* Do not hold any other place besides the grip.

- When lowering the back section base, prevent the back section base from contacting the oxygen cylinder or flow meter. Contact may damage the flowmeter or other equipment.

The upper surface of the back section base is the guide for the scale.
The angle is 20° in the figure.



Backrest angle indication

- When the transfer board is up, an approximate angle for the backrest can be read on the scale on the side.
- * The upper surface of the back section base is the guide for the scale.
The angle is 20° in the figure.


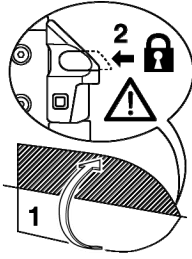


NOTE!

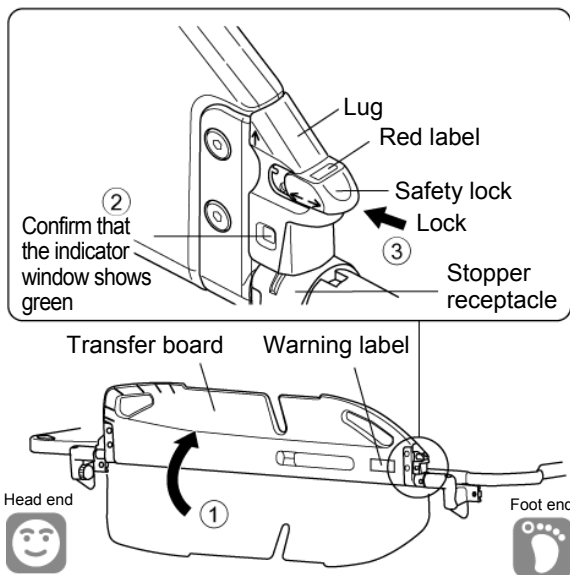
- Use the angle indicator on the transfer board as guide when adjusting the angle to which to raise the backrest.

5. Transfer board

- Transfer boards can be used to protect a patient on the stretcher from falling off and also as a bridge between the stretcher and a bed when transferring a patient to/from a bed. They can be used as an arm table by locking them in the horizontal level position.

 WARNING	<ul style="list-style-type: none"> When patients are placed on the base of stretcher, secure them with the restraint belts (p. 16), raise the transfer boards, and continuously monitor them. Otherwise, the patient may fall off from the stretcher and get injured. After raising the transfer boards or locking them in the horizontal level position, use the safety lock and confirm that they are properly locked (Green in the indicator window). If they are not locked properly (red shows in the indicator window), the transfer boards may lower and the patient may fall off and get injured. 	
--	---	---

■ To raise the transfer board



To raise the transfer board

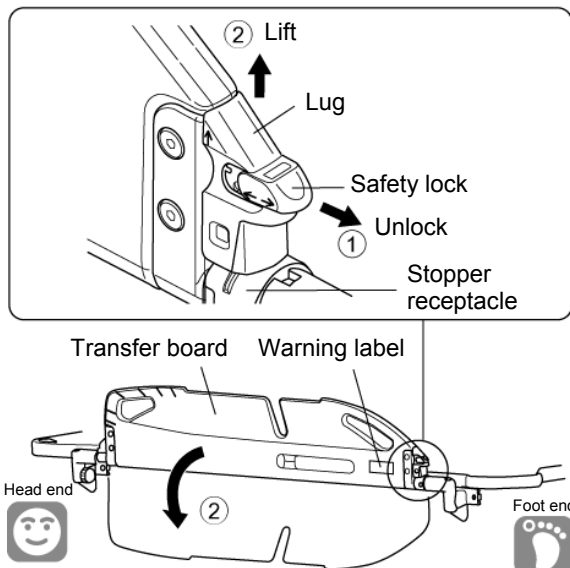
- Slowly lift the transfer board, which has been lowered, in the direction shown in the figure to the left. When it reaches the upper limit, the lug lowers and the stopper works.
- Confirm that the stopper is properly working (green shows in the indicator window).
- Press in the safety lock in the direction shown by the arrow ← (transfer board side) until the red label can no longer be seen for proper locking.



- Make sure not to let sheets get caught in the stopper or safety lock as it will hinder the functions of the parts.

* In this manual, raising the transfer board entails completing all of the steps outlined in ① to ③.

■ To lower the transfer board



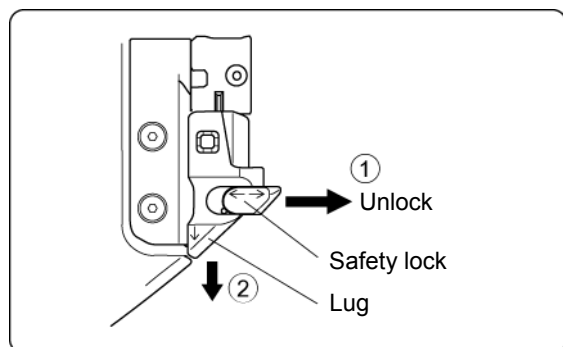
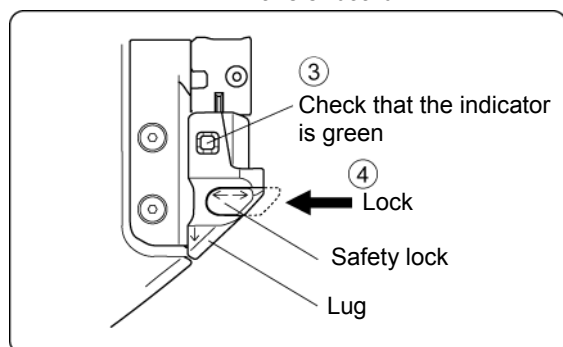
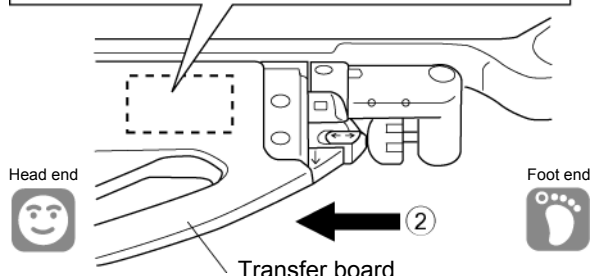
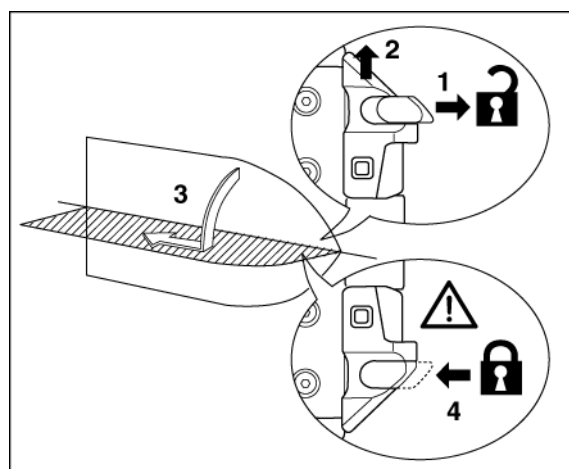
To lower the transfer board

- Release the safety lock.
- While lifting the lug, slowly lower the transfer board.

5 OPERATION PROCEDURES

5. Transfer board

■ To lock the transfer board in a horizontal level position (when using as an arm table)



To lock the transfer board in a horizontal level position

[Placing the transfer board in the horizontal level position from the up position and locking it in place]

- ① Release the safety lock and lower the transfer board in a horizontal level position while lifting the lug.
(See **To lower the transfer board** in p. 14)
- ② Move the transfer board in the direction shown by the arrow ← while keeping it in a horizontal level position. The lug lowers and the stopper works.
- ③ Confirm that the stopper is properly working (green shows in the indicator window).
- ④ Press in the safety lock in the direction shown by the arrow ← (transfer board side) for proper locking.

[Placing the transfer board in the horizontal level position from the down position and locking it in place]

- ① Slowly lift the transfer board to a horizontal level position.
(See **To raise the transfer board** in p. 14)
- ② Move the transfer board in the direction shown by the arrow ← while keeping it in a horizontal level position. The lug lowers and the stopper works.
- ③ Confirm that the stopper is properly working (green shows in the indicator window).
- ④ Press in the safety lock in the direction shown by the arrow ← (transfer board side) for proper locking.

To unlock the transfer board from a horizontal level position

- ① Release the safety lock.
- ② Pull the lug in the direction shown by the arrow.



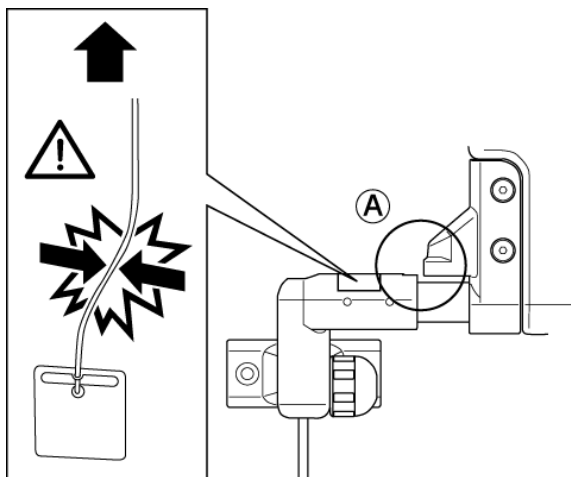
WARNING

- Unlock the transfer board in a horizontal level position except when using as an arm table. Otherwise the patient could lose balance and fall out of the stretcher or fall over, resulting in injury or the stretcher could be damaged or deformed.



CAUTION

- Do not place objects weighing more than 10 kg on the transfer board when it is locked in a horizontal level position. Doing so could cause an injury, malfunction, or deformation.




WARNING

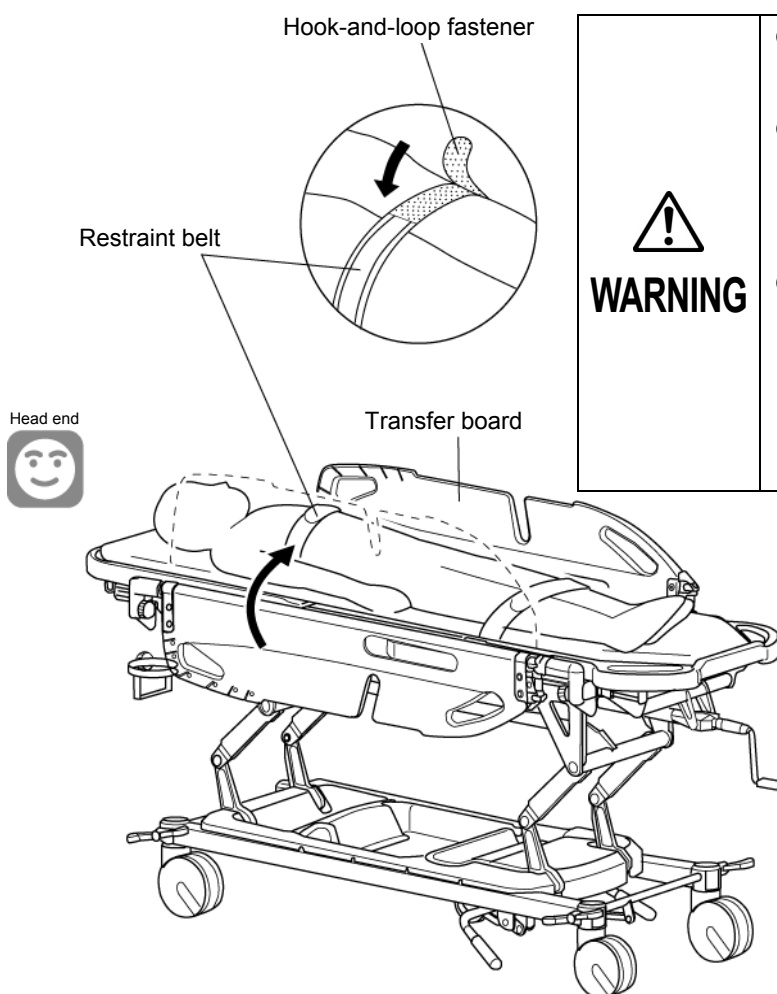
- When operating the transfer board, prevent the tube (drain) from getting caught in part ① in the figure to the left. If the tube (drain) gets caught, it may break.


CAUTION

- Do not operate the transfer board while placing fingers on part ① in the figure to the left. Fingers may get caught, resulting in an injury.

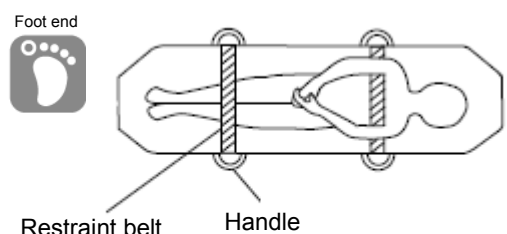
6. Restraint belt

- Restraint belts are designed to secure patients in order to prevent them from falling off. When transporting a patient, be sure to firmly secure the patient with the front and back belts. Pass the restraint belts through handles (all four) on the transfer mattress.




WARNING

- Do not raise the backrest when a patient is secured on the stretcher. The patient may get injured.
- Fasten the restraint belts and make sure there is no slack. If they are not properly fastened, the patient may fall off or the stretcher may tip over, resulting in an injury.
- After placing a patient on the base (back section base and leg section base) of the stretcher, use the two pairs of restraint belts to secure the patient to the transfer mattress and stretcher. Otherwise, the stretcher may slip and the patient may fall off and get injured.

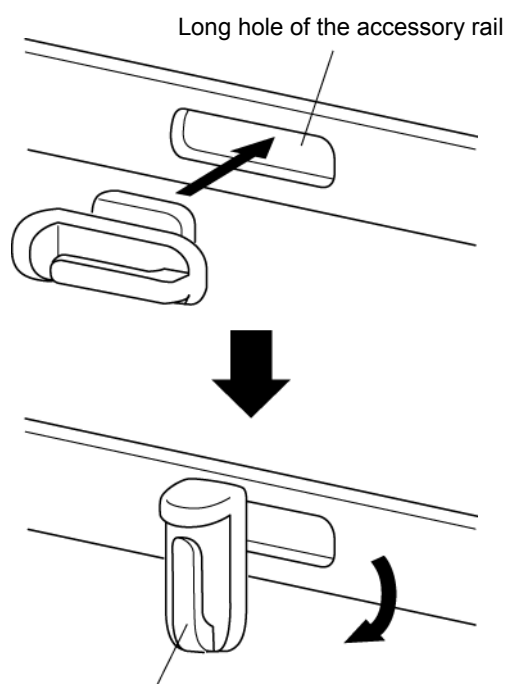
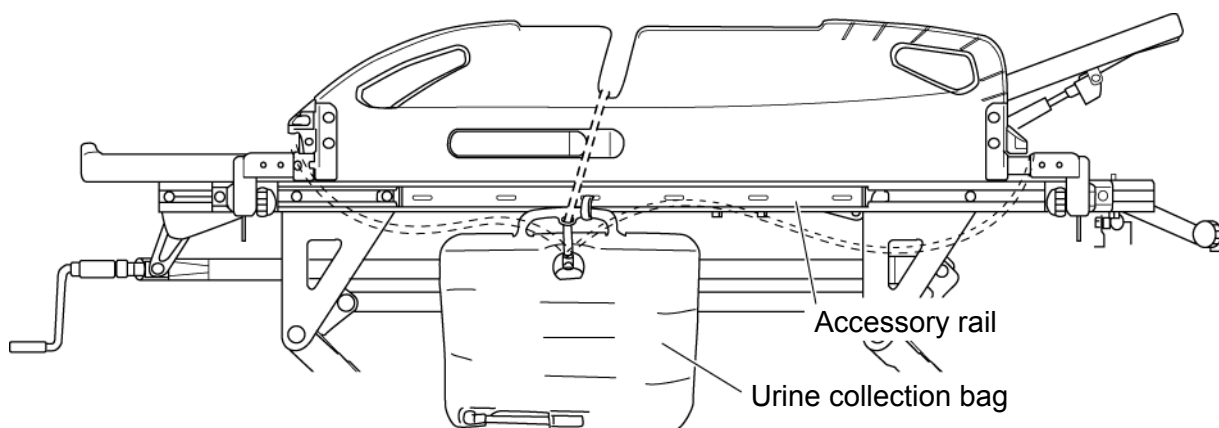


- Pass the restraint belts through handles on the transfer mattress.

5 OPERATION PROCEDURES

7. Accessory rail

- The stretcher is equipped with accessory rails under the transfer boards. Hooks (3K003355) can be attached to these rails and can be used to hang articles such as urine collection bags.
- Hooks can be attached in some different positions. Attach them according to the position or length of the tube.



Hook (3K003355: Four pieces are supplied.)

Attaching the hook

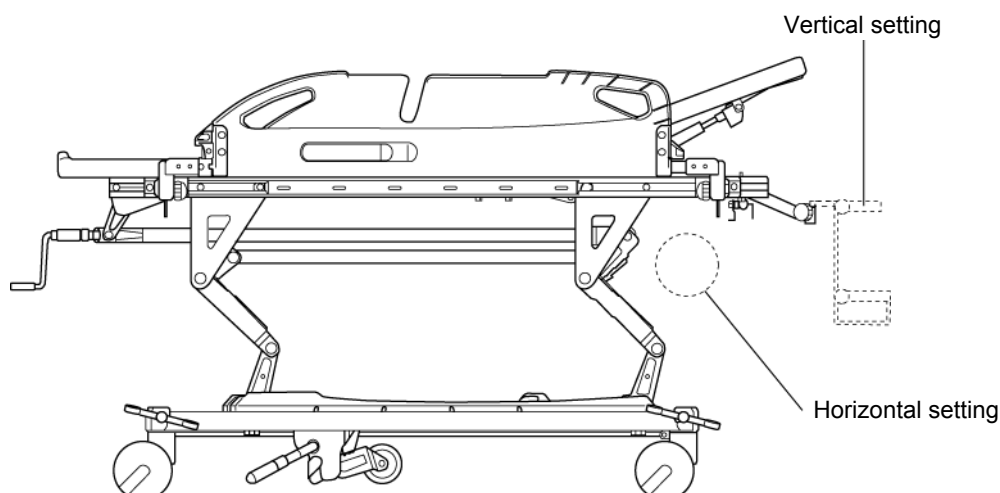
- Insert the hook into a long hole of an accessory rail sideways and turn it as shown in the figure.



- When attaching articles such as urine collection bags, do not raise or lower the transfer board. The tube could be pulled, causing injury, or damaging or deforming urine collection bags.
- Each hook's load capacity is 3 kg. Do not hang an article exceeding the load capacity because it may damage or deform the hook or accessory rail, resulting in injury.

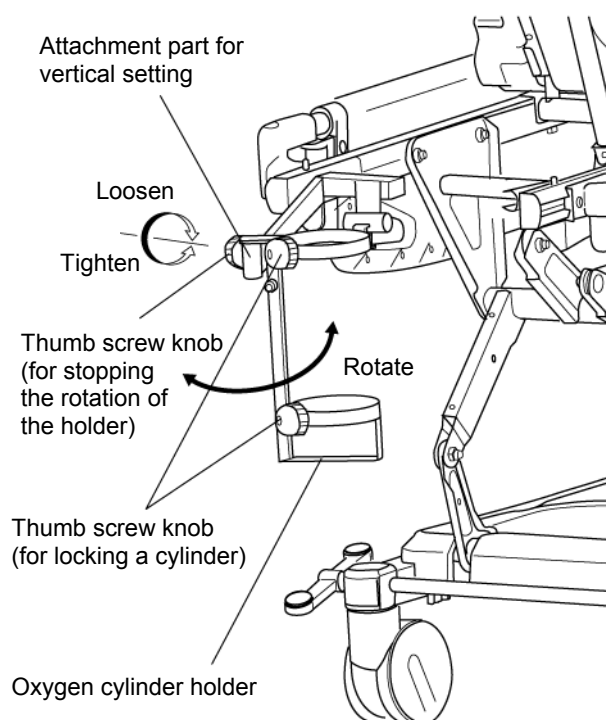
8. Oxygen cylinder holder

- The oxygen cylinder holder can contain a 500 L (10 cm to 11.5 cm diameter) oxygen cylinder.
- The oxygen cylinder holder can be set either vertically or horizontally. (Initial setting is vertical.)



Vertical setting

- ① Insert the oxygen cylinder holder into the attachment part for vertical setting as shown in the figure. (At initial setting, it is already inserted.)
- ② Turn the holder to adjust the position of an oxygen cylinder so that it will not contact the back section base.
- ③ Insert an oxygen cylinder into the oxygen cylinder holder slowly and then firmly lock the cylinder by tightening the three thumb screw knobs (one for stopping the rotation of the holder and two for locking the cylinder).



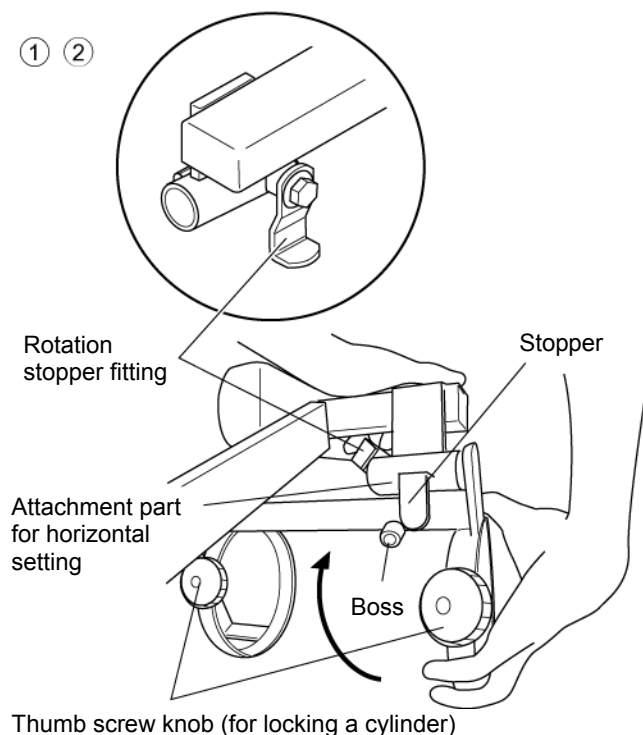
● Pay attention not to hit the oxygen cylinder holder and flowmeter against the bed or wall when transporting or adjusting the height of stretcher. Otherwise, the oxygen cylinder holder and flowmeter may be deformed, resulting in injury.



- When adjusting the position of the oxygen cylinder holder, be careful not to get your fingers caught between the oxygen cylinder holder and the thumb screw knob (for stopping the rotation of the holder) of the attachment part for vertical setting.
- When not using the oxygen cylinder holder, store it under the back section base by rotating it and firmly lock it by tightening the thumb screw knob (for stopping the rotation of the holder).

5 OPERATION PROCEDURES

8. Oxygen cylinder holder



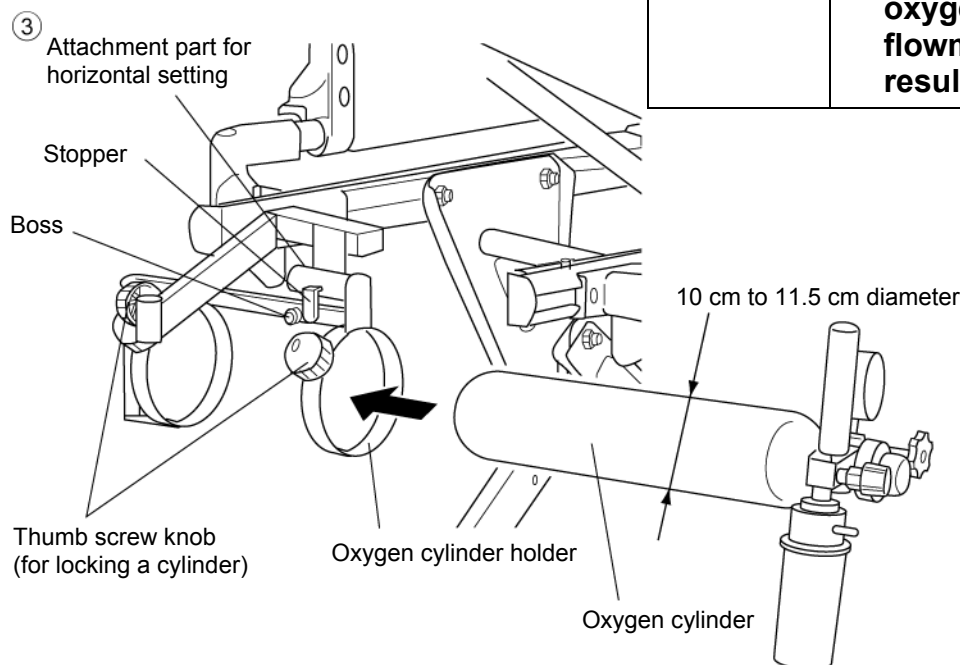
Horizontal setting

- ① As shown in the figure, hold the rotation stopper fitting with your hand to keep it in a horizontal position, then insert the oxygen cylinder holder into the attachment part to set horizontally. Insert the oxygen cylinder holder deeply while adjusting its angle so that the boss of the holder reaches deeply into the stopper.
- ② Rotate the oxygen cylinder holder as shown in the figure and let the rotation stopper fitting go so that the stopper works.
- ③ Insert an oxygen cylinder deeply into the oxygen cylinder holder and then firmly lock the cylinder by tightening the two thumb screw knobs (two thumb screw knobs for locking a cylinder).



WARNING

- Pay attention not to hit the oxygen cylinder holder and flowmeter against the bed or wall when transporting or adjusting the height of stretcher. Otherwise, the oxygen cylinder holder and flowmeter may be deformed, resulting in injury.

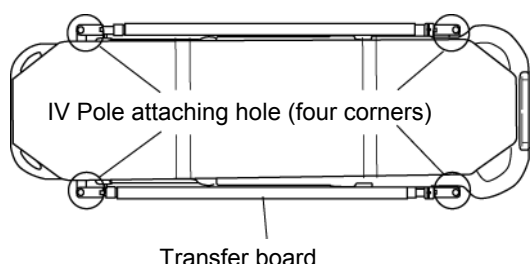


WARNING

- After mounting the oxygen cylinder holder in the horizontal position, confirm that the stopper is working properly by shaking the holder. If the holder is not mounted properly, an oxygen cylinder may drop, resulting in an injury or damage.
- After inserting an oxygen cylinder into the oxygen cylinder holder, tighten the thumb screw knobs properly. Otherwise, the oxygen cylinder may move unexpectedly or drop, resulting in an injury or damage.
- The load capacity of the oxygen cylinder holder is 15 kg. Do not insert a cylinder that exceeds the load capacity because it may damage or deform the oxygen cylinder holder or frame, resulting in an injury.

9. IV Pole (C57E)

- Stretcher viewed from above



- IV Pole attaching holes are located in two places each on the left and right sides of the stretcher, four places in total. Using the holes, IV Poles for drip infusion can be mounted.

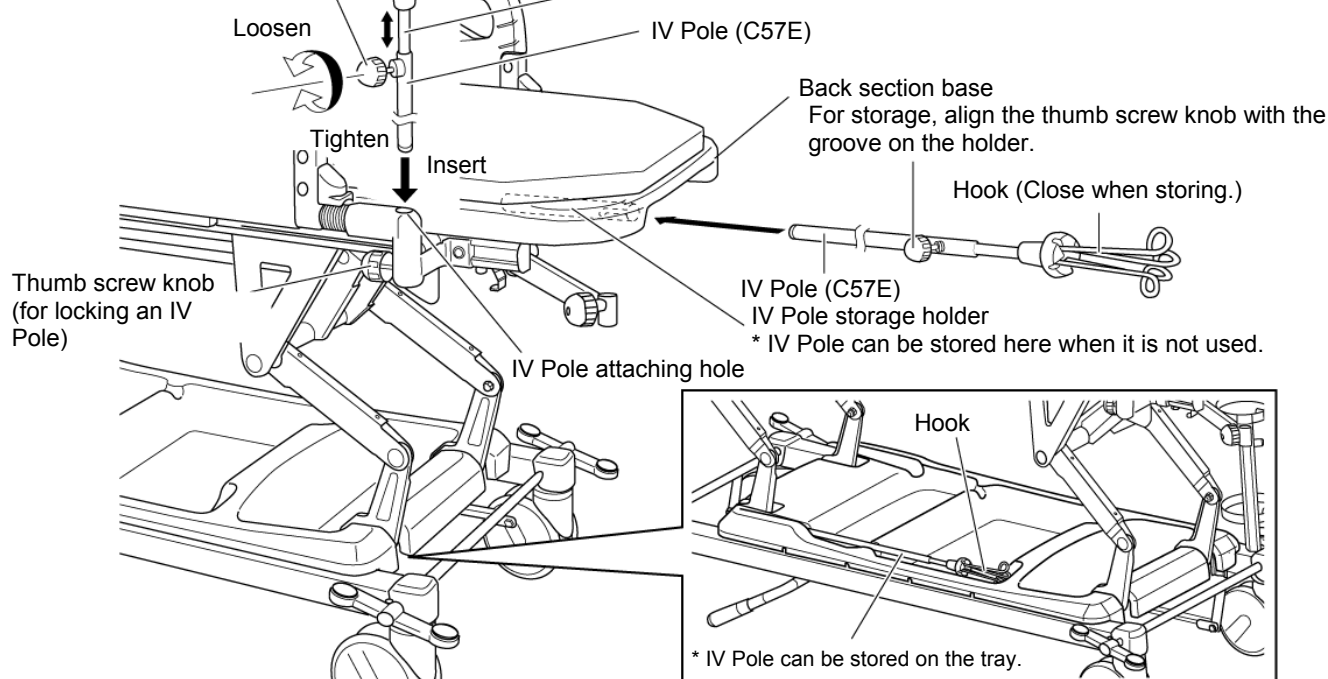
- 1 Insert an IV Pole into an attaching hole and firmly lock it by turning the thumb screw knob (for locking an IV Pole).
- 2 Adjust the length of the sliding pipe of the IV Pole, lock it using the thumb screw knob (for locking the sliding pipe), and open the hook on the tip.

Hook (Open when using.)

Thumb screw knob
(for locking the sliding pipe)



- **Confirm that the IV Pole is properly locked with the thumb screw knob (for locking an IV Pole).**



WARNING

- When using an IV Pole, do not put hands or arms in between the base or transfer board and the IV Pole. Hands or arms may get caught and injured.
- Each hook's load capacity is 1 kg. Do not hang an article that exceeds the load capacity because it may damage the hook, resulting in an injury.
- For an IV Pole to be directly mounted on the stretcher, use only accessories approved by Paramount Bed. The use of products other than the specified suitable products or products from other companies could create unintended gaps, cause interference between products, or lower stability, resulting in injury or failure of the stretcher.

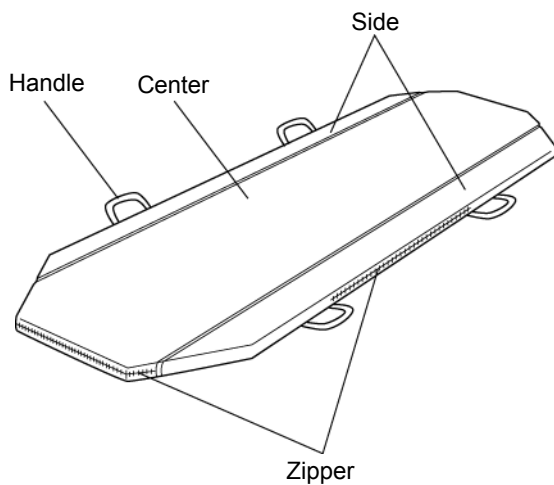


CAUTION

- Length adjustment of the sliding pipe should be kept within 40 cm. If the sliding pipe is pulled out too much, it may come off, resulting in an injury or damage.
- When not using the IV Pole, close the hook, shorten the pole down to as short as it will go, and store it properly in the IV Pole storage holder located in the back section base or in the IV Pole store space located on the tray. If not stored properly, the IV Pole could hit other parts when the height of the stretcher is adjusted, causing damage or deformation of the IV Pole or stretcher.

5 OPERATION PROCEDURES

10. Transfer mattress



- A patient can be transferred to/from a bed without being lifted. For the procedures, see **6** PATIENT TRANSFER on p. 22 to 25.
- The mattress consists of three parts, the center parts and two side parts, so that it can be placed under a patient easily.
- The surface material is water-repellent and is easy to wipe for cleaning.
- The surface material is washable. When washing, unfasten the zipper on the center and side, take out the padding (three pieces), and wash the surface material only.

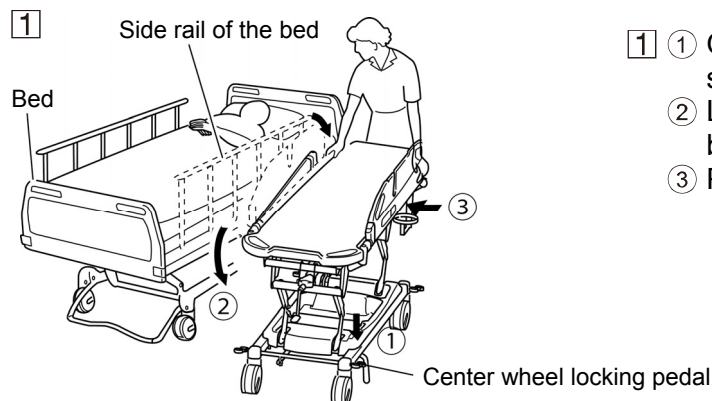


- To wash the transfer mattress, take out the padding and wash the surface material only. Otherwise, the surface material and padding may get damaged.
- To iron the surface material, set the iron at a low temperature (80°C to 120°C). Otherwise, the surface material may get damaged or deformed.

6 PATIENT TRANSFER

- * The illustration shows only one nurse in order to explain procedures simply. In actual procedures however, a patient should be transferred by at least two persons for safety.
- * Pay attention not to hit the oxygen cylinder holder when adjusting the height of stretcher for transfer.

To transfer a patient from a bed to the stretcher

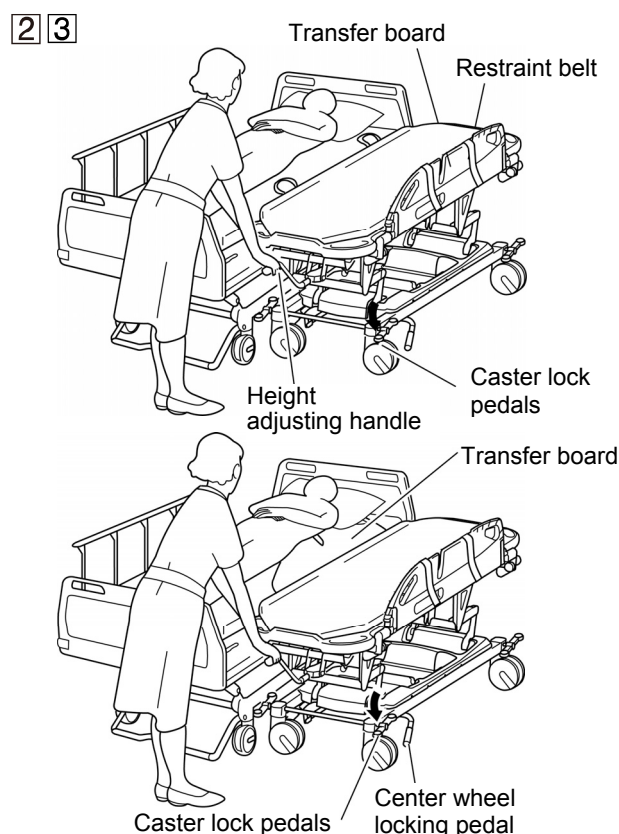
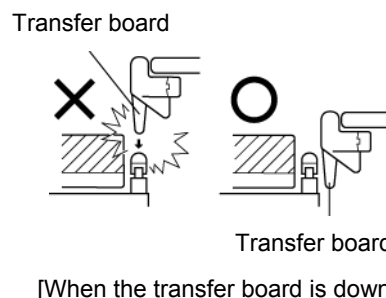
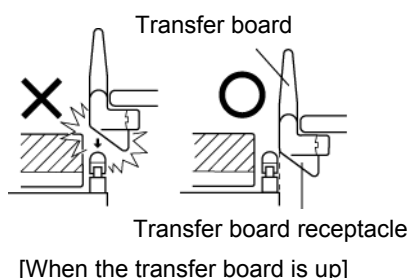


- ① Operate the center wheel locking pedal of the stretcher to set the lock to OFF (KK-728E only).
- ② Lower the transfer board and the side rail of the bed.
- ③ Place the stretcher by the bed (see p. 11 and 14).



WARNING

- When placing the stretcher by a bed, prevent the transfer board or transfer board receptacle of the stretcher from sitting on the side rail (foldable type) of the bed. Otherwise, the stretcher may tip over, resulting in an injury or the side rail of the bed or the transfer board may get damaged or deformed.



- ② Depress the caster lock pedal (red) of the stretcher to lock the casters and then align the height of the stretcher to the height of the bed by operating the Height adjusting handle (see p. 10 and 12).



WARNING

- When adjusting the stretcher height, lock the casters. Otherwise, the stretcher could unexpectedly move when operators attempt to adjust the height, which could lead to injury.



NOTE!

- Set the stretcher slightly lower than the bed for easier transfer.

- ③ Unfasten the restraint belts of the stretcher and move them so that they will not hinder the transfer procedure.



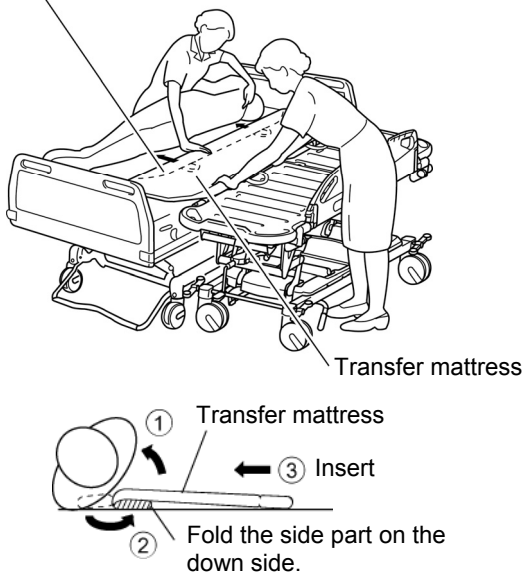
NOTE!

- When there is a wide gap between the stretcher and a bed, the transfer board can be placed over the bed.

6 PATIENT TRANSFER

4

- Fold the side part on the down side.



- 4
- ① Roll the patient over to the opposite side of the stretcher.
 - ② Fold the side part of the transfer mattress on the down side.
 - ③ Insert the transfer mattress under the patient's back as deeply as possible.

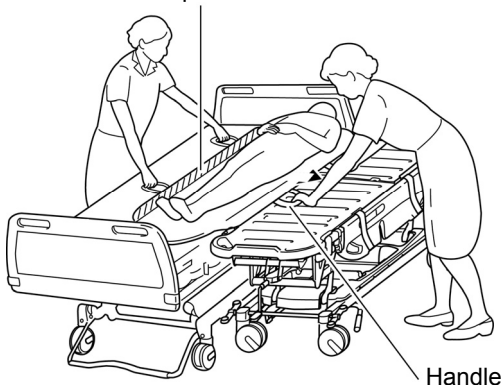


WARNING

- When transferring a patient using the transfer mattress, place the patient's hands together on their abdomen in order to prevent their hands from getting caught by a handle of the transfer mattress or other parts. There is a risk of injury caused by falling over.

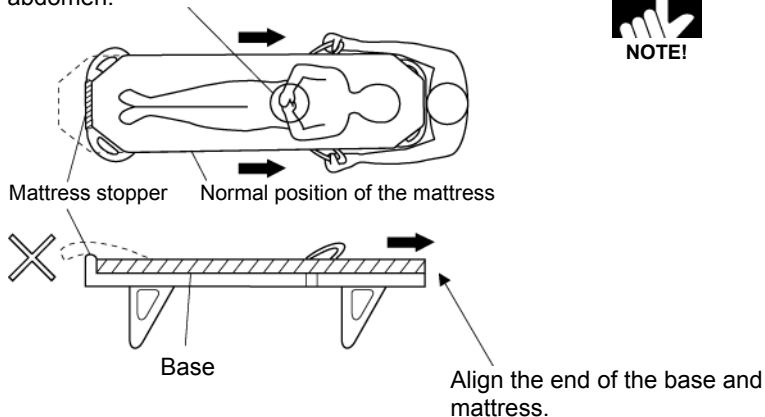
5

- Pull out the side part of the transfer mattress.



- 5
- Lay the patient in the center of the transfer mattress on their back, place their hands together on their abdomen, and pull out the side part of the transfer mattress that was folded in step 4. Grab handles of the transfer mattress (handles on the stretcher side) and pull the mattress to the center of the stretcher carefully.

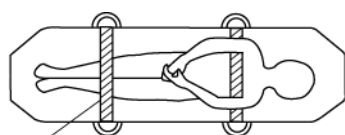
- Have the patient's hands together on their abdomen.



NOTE!

- If the base and transfer mattress do not align, grab the handles as shown in the figure to the left and adjust the position of the mattress using the mattress stopper on the leg section base as a guide.

6



Restraint belt

Handle

- Pass the restraint belts through the handles.

- 6 Be sure to firmly secure the patient with the front and back belts. Pass the restraint belts through handles (all four) on the transfer mattress (see p. 16).

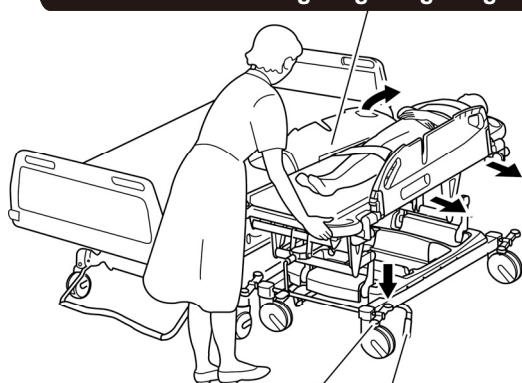


WARNING

- **After placing a patient on the base (back section base and leg section base) of the stretcher, use the two pairs of restraint belts to secure the patient to the transfer mattress and stretcher. Otherwise, the stretcher may slip and the patient may fall off and get injured.**

7

Area with a risk of fingers getting caught



Caster lock pedals

Center wheel locking pedal

- 7 Depress the caster lock pedal (green) to unlock the casters, move the stretcher slightly away from the bed, and raise the transfer board (see p. 14).



WARNING

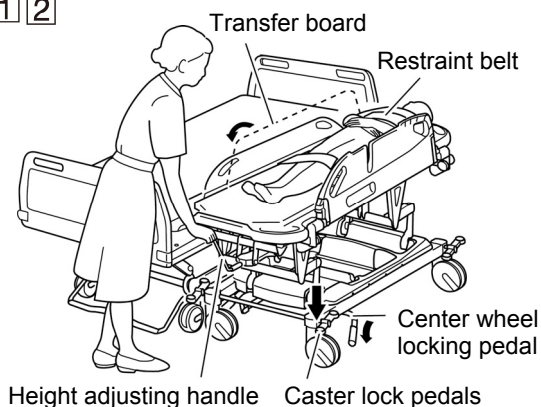
- **When operating the transfer board, place the patient's hands together on their abdomen. Otherwise, a hand may get caught by the transfer board and get injured.**

- 8 Move the stretcher. When transporting the stretcher, raise the center wheel locking pedal to switch it ON for more stable stretcher movement and easier control (KK-728E only). To move sideways, switch OFF the center wheel (see p. 11).

6 PATIENT TRANSFER

To transfer a patient from the stretcher to a bed

1 2



1 Depress the center wheel locking pedal of the stretcher to switch it OFF (KK-728E only), place the stretcher by the bed, and lock the casters by pressing down the caster lock pedal (red) (see p. 10 to 11).

2 Align the height of the stretcher to the height of the bed by operating the height adjusting handle and place the transfer board over the bed (see p. 12 and 14).



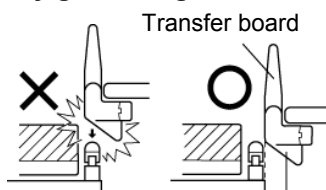
NOTE!

● Set the bed slightly lower than the stretcher for easier transfer.

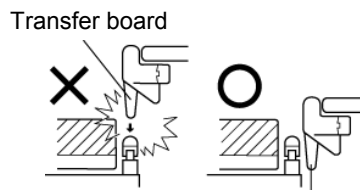


WARNING

● When placing the stretcher by a bed, prevent the transfer board or transfer board receptacle of the stretcher from sitting on the side rail (foldable type) of the bed. Otherwise, the stretcher may tip over, resulting in an injury or the side rail of the bed or the transfer board may get damaged or deformed.

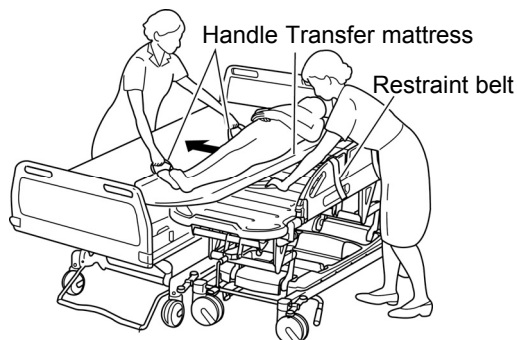


Transfer board receptacle
[When the transfer board is up]



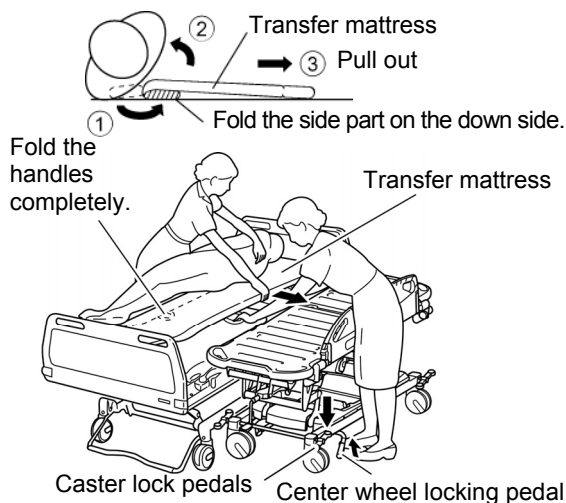
Transfer board
[When the transfer board is down]

3



3 Unfasten the restraint belts from the patient and place them in an area where they will not hinder the transfer procedure. Grab the handles of the transfer mattress and transfer the patient onto the bed by slowly pulling the mattress.

4



NOTE!






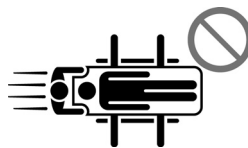

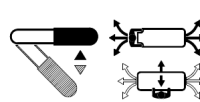

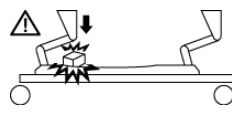

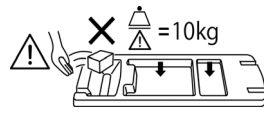
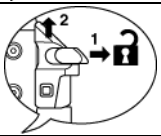


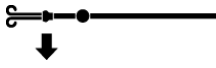
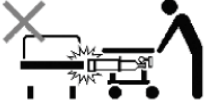




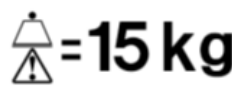


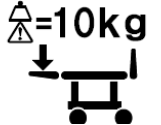
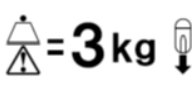


● Fold the handles under the transfer mattress completely. If a small part of a handle is protruding, it gets caught under the patient's body and the transfer mattress cannot be pulled out smoothly.

5 Lay the patient on their back.

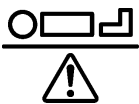
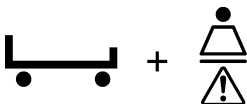




6 Place the transfer mattress on the stretcher, return the restraint belts to the original position, raise the transfer board, and unlock the casters to move the stretcher. When moving the stretcher, raise the center wheel locking pedal to switch it ON for more stable stretcher movement and easier control (KK-728E only) (see p. 11).

7 PRODUCT SYMBOL DEFINITIONS

The symbols below are used for the stretcher.

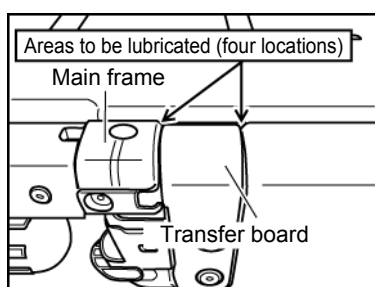
Symbol	Description	Symbol	Description
	<ul style="list-style-type: none"> CE mark 		<ul style="list-style-type: none"> Do not use the transfer board as a support to stand up.
	<ul style="list-style-type: none"> Warning and Caution 		<ul style="list-style-type: none"> Do not transport a patient with the transfer board locked in the horizontal level position.
	<ul style="list-style-type: none"> Safe working load 		<ul style="list-style-type: none"> When transporting a patient, be sure to fasten the restraint belts.
	<ul style="list-style-type: none"> The casters are locked 		<ul style="list-style-type: none"> Operation procedures that are available when the center wheel is ON or OFF.
	<ul style="list-style-type: none"> The casters are unlocked 		<ul style="list-style-type: none"> Do not place objects that sticks out from the tray.
	<ul style="list-style-type: none"> The safety lock is locked 		<ul style="list-style-type: none"> Do not place objects on areas marked with X * Tray's load capacity is 10 kg
	<ul style="list-style-type: none"> The safety lock is released 		<ul style="list-style-type: none"> Adjust (raise, lower) the height.
	<ul style="list-style-type: none"> Do not get a tube caught. 		<ul style="list-style-type: none"> Position to store an IV Pole.
	<ul style="list-style-type: none"> Do not hit the oxygen cylinder holder against the bed or wall. 		<ul style="list-style-type: none"> Do not get hands or fingers caught when lowering the back section base.
	<ul style="list-style-type: none"> Do not get on the transfer board. 		<ul style="list-style-type: none"> Do not use the transfer mattress as a stretcher.
	<ul style="list-style-type: none"> Do not lean against the transfer board. 		<ul style="list-style-type: none"> The load capacity of the Oxygen cylinder holder is 15 kg.
	<ul style="list-style-type: none"> Do not lock the transfer board in the horizontal level position when transferring a patient. 		<ul style="list-style-type: none"> The load capacity of each hook is 1 kg.
	<ul style="list-style-type: none"> The load capacity of the transfer board is 10 kg. 		<ul style="list-style-type: none"> The load capacity of each hook attached to the accessory rail is 3 kg.
	<ul style="list-style-type: none"> Do not grab the stretcher or lean against them. 		<ul style="list-style-type: none"> See the instruction manual

7 PRODUCT SYMBOL DEFINITIONS

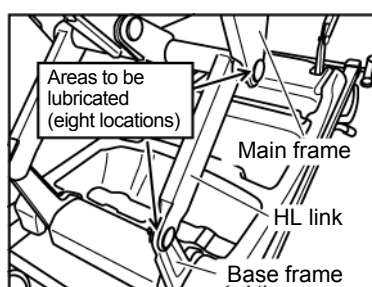
	• Maximum user weight		• Total weight including load capacity
	• Manufacturer		• Authorised representative in the European Community
	• Date of manufacture		• Serial number

8 REGULAR INSPECTION AND DAILY MAINTENANCE

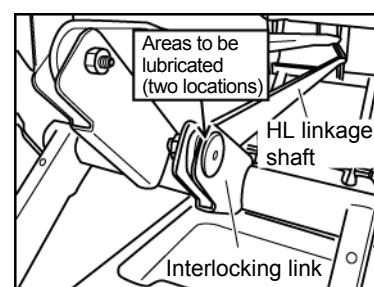
- For safety in use, inspect the product regularly, at least once a year. The product exhibits wear and deterioration according to the frequency and conditions of use. Regularly inspect for parts looseness, the operation of moving parts, and the presence of damage. If you notice an irregularity or want a detailed inspection, contact Paramount Bed or your distributor (see "Contact Information" on page 30). If abnormal noise occurs during use, apply a lubricant (see the following illustration).



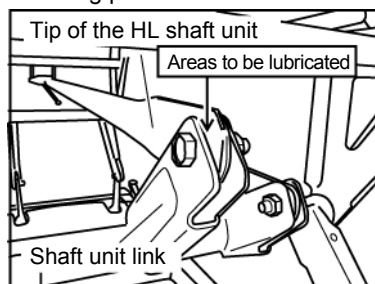
Rotating part of the transfer board



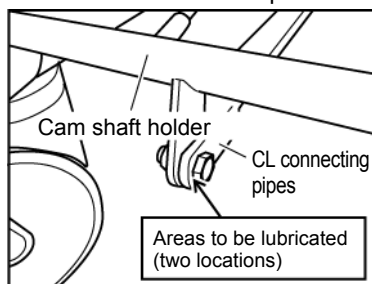
HL link connection point



HL linkage shaft connection point



Tip of the HL shaft unit



CL interlocking pipe connection point

- Keep the stretcher and mattress away from water and humidity because they may cause rust, breeding of bacteria, and generation of abnormal noise. If water gets on them, immediately wipe it off.


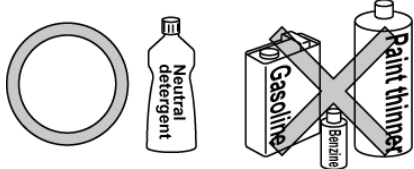
< Maintenance and inspection items to be completed by the user of the product >

- Main Unit
 - The position operations using the height adjusting handle or back-raising lever are to be working properly.
 - There are not to be any abnormal sounds produced or significant rattling when positioning operations are performed.
 - There is not to be any deformation, damage, or detachment of bumpers or resin parts.
 - There must not be any peeling of labels, and the text must be legible.
 - There are not to be any scratches on or deformation of the mattress base, frame, or any other parts.
- Transfer Board
 - The safety lock is to be locked properly and firmly.
 - There is not to be any significant rattling present.
- Casters
 - There are not to be any abnormal sounds produced while the bed is being moved.
 - There is not to be any abnormal vibration occurring while the bed is being moved.
 - Operations are to run properly.
 - Operations to lock/release the casters are to run properly.
 - Operation controls are to run smoothly without any abnormal resistance.
 - The bed is not to move while the casters are in the locked position.
 - The bed is to move smoothly while the lock is in the released position.

■ Stretcher unit

- To remove dirt from parts (Bed unit)
Complete steps (1) to (3) listed below.
 - (1) Wipe off parts using a soft cloth soaked in a neutral cleaning solution lightly diluted with water that has been wrung out to remove excess fluid.
 - (2) Ring out as much moisture from the cloth as possible and then wipe up any remaining cleaning solution residue.
 - (3) Use a dry cloth to thoroughly wipe away any leftover moisture.
- To disinfect parts
Use one of the disinfectants listed below at the specified concentration, making sure to follow the instructions in the manuals or other materials available for the selected disinfectant.
 - 76.9% - 81.4% ethanol for disinfection
 - 0.05% - 0.2% benzalkonium chloride (e.g. Osvan)
 - 0.05% - 0.2% benzethonium chloride (e.g. Hiamine)
 - 0.05% chlorhexidine gluconate (e.g. Hibitane)
 - 0.02% - 0.05% sodium hypochlorite (e.g. Milton)

*It is highly recommended that you thoroughly disinfect the stretcher between people using the stretcher.

 CAUTION	<ul style="list-style-type: none">● Do not use volatile cleaning fluids (such as paint thinner, benzene or gasoline) and cresol. Discoloration or deterioration could result.● Do not use disinfectants or other fluids other than those listed above with the stretcher. Discoloration or deterioration could result.● Thoroughly dry off parts after using a neutral cleaning solution. Failure to do so could cause resin parts to crack. 
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NOTE!

- The stretcher cannot be used with an ozone sterilizer, an autoclave, etc.

■ Transfer mattress

- Wipe off dirt on the mattress with a cloth dampened with warm water and then leave to dry in the shade with good ventilation. If dirt does not come off, wipe with a cloth that has been soaked in neutral detergent diluted with water and wring it out thoroughly. Then, wipe off any residual detergent with a wet cloth that has been squeezed well and let the mattress dry in a shady place with good ventilation.
- The surface material of the transfer mattress is washable (see p. 21).



NOTE!

- **The mattress should not be cleaned by an ozone sterilizer or autoclave apparatus.**
- **To clean the transfer mattress, take out the padding and wash the surface material only.**

9 TROUBLESHOOTING

- Problems may not always indicate faults. Check the following once again before requesting repair. If the problem persists after checking these points and performing corrective actions, stop using the stretcher immediately and contact Paramount Bed or your distributor (see "Contact Information" on page 30).

Problem	Check	Corrective action	Reference page
■ The handle cannot be operated from the highest or lowest position of the height adjustment.	● Check if the handle may have been operated beyond the highest or lowest position.	● Turn the height adjustment handle in the direction opposite to the direction the handle was turned excessively.	12
■ The height cannot be adjusted.	● Check if there is an obstacle under or behind the stretcher.	● Remove the obstacle or anything hindering the height adjustment.	-
■ The stretcher cannot be moved.	● Check if the casters are locked.	● Unlock the casters.	10
■ The stretcher cannot be moved sideways.	● Check if the center wheel is set to ON.	● Switch OFF the center wheel.	11
■ The transfer board cannot be lowered.	● Check if the safety lock is ON.	● Release the safety lock.	14/15
■ The transfer board rattles.	● Check if the stopper receptacle is worn.	● Contact us (see "Contact Information" on page 30) for repair.	14

- When requesting repairs or contacting us (see "Contact Information" on page 30), please provide the number on the product ID label (see p. 2).

10 LONG-TERM STORAGE AND TRANSPORTATION

- The following precautions should be noted when the stretcher is not in use for extended periods of time.

- Level the back section base.
- Lower the stretcher height to the minimum height.
- Do not place objects on the stretcher other than the transfer mattress.
- Do not place objects on the transfer mattress.
- Do not store the stretcher in a location subject to high temperatures or humidity, low temperatures, dryness or excessive dust.
Store the stretcher at a temperature between -10°C and 50°C, humidity between 30%RH and 90%RH, and air pressure between 700hPa and 1060hPa.
- Store the recliner in a level location and do not stand it up or lean it against a wall.

Note: When transferring the stretcher, be careful about the above caution items.

11 AFTER-SALES SERVICE

1. When requesting repairs

First check the items described in "9 TROUBLESHOOTING" on p. 29 in the instruction manual. If the problem persists, contact us (see "Contact Information" on page 30).

■ Details necessary when requesting repair

- Product name, product number, product ID (Affixed on the outside of the main frame. See p. 2)
- Date of purchase
- Details of the fault or problem (please provide as much detail as possible)
- Your name, organization, address, and phone number

■ Consumables

- The transfer mattress, casters, and caster lock pedals are consumable parts.

2. Minimum stock availability period

Paramount Bed keeps replacement parts (necessary to maintain stretcher performance) in stock for at least 8 years after the discontinuation of production.

3. Questions regarding after-sales service

Contact us (see "Contact Information" as shown below).

STRETCHER DISPOSAL

When the Stretcher Trolley has reached the end of its usable life, discard it according to local standards.

CONTACT INFORMATION

For any queries, contact to the address or telephone number listed below.



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