



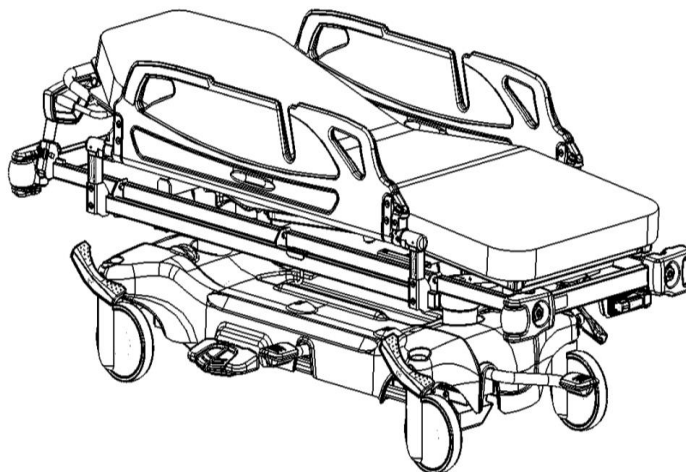
PARAMOUNT BED

INSTRUCTION MANUAL

PK-8000 Series

Emergency Stretcher

7A10646900A8



Preface

Thank you for purchasing the **PK-8000 Series 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.
- The correct operating procedures should be explained not only to the persons using the stretcher but also to caregivers.
- After reading this instruction manual, store it where it can be easily accessed for later reference.
- Users and/or carers are requested to report information about any serious incident related to this stretcher that occurs within the EU to the manufacturer and the regulating authority of the member country of residence. 'Serious incident' means any incident that directly or indirectly led, might have led or might lead to any of the following:
 - a) The death of a user, carer or other person.
 - b) The temporary or permanent serious deterioration of a user's, carer's or other person's state of health.
 - c) A serious public health threat.
- Values in the specification such as working range, dimensions, angles and mass are subject to normal manufacturing tolerances. Beside some exemptions, display purpose words such as "approximately", "about" etc. are omitted.
- The actual product purchased may differ from detailed descriptions given in this instruction manual due to product improvements.
- For any queries, please feel free to directly contact your distributor.

PARAMOUNT BED CO, LTD.

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1 INTENDED USE / PART NAMES

1.Intended Use

■ This stretcher is intended to be used when transporting patients or taking X-rays of patients at medical facilities.

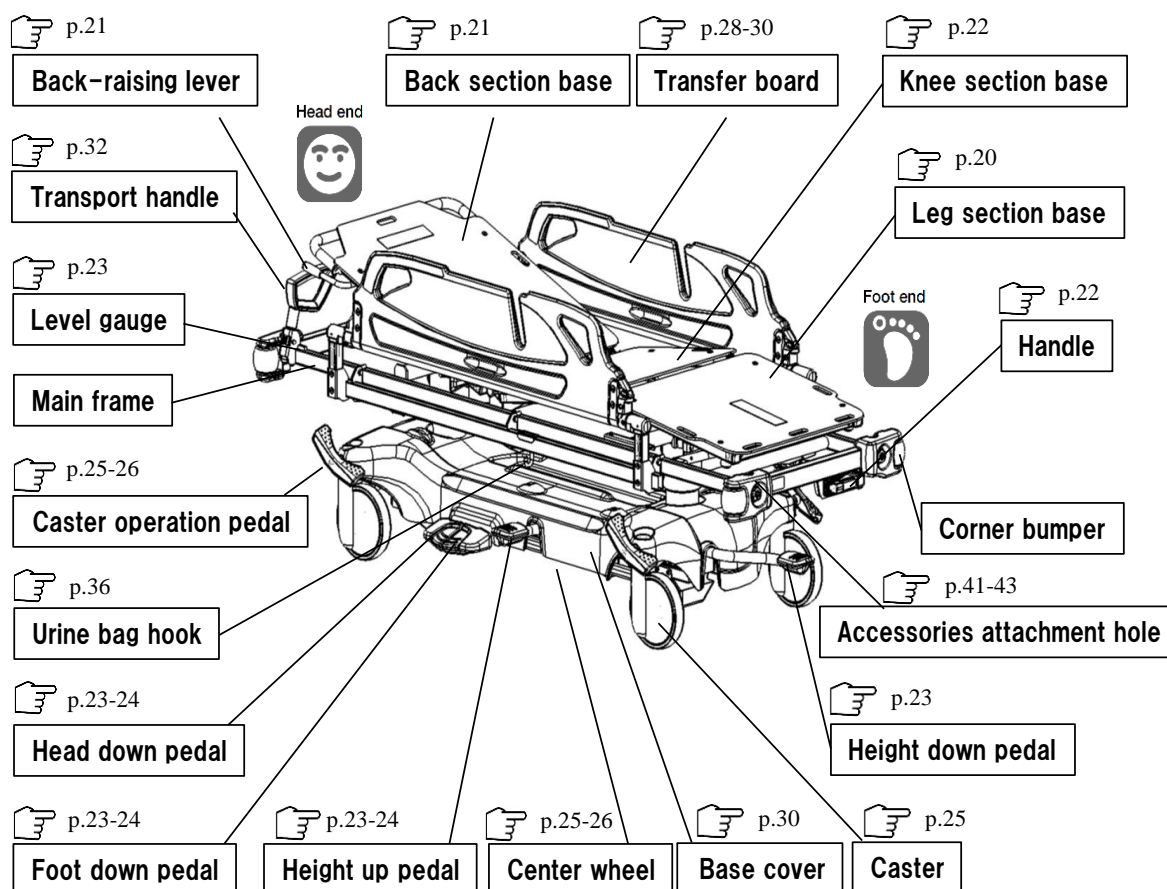
※ Please refer to the 「SPECIFICATION」 for the target patient groups and the intended users.

2. Part Names

【Transfer Board Type】

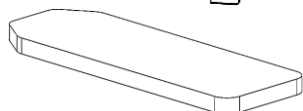


The page number shown next to this symbol indicates where the related explanation can be found.



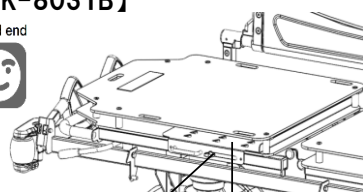
【Urethane Mattress】

p.38



【PK-8031B】

Head end



p.34

Knob bolt

X-ray cassette tray

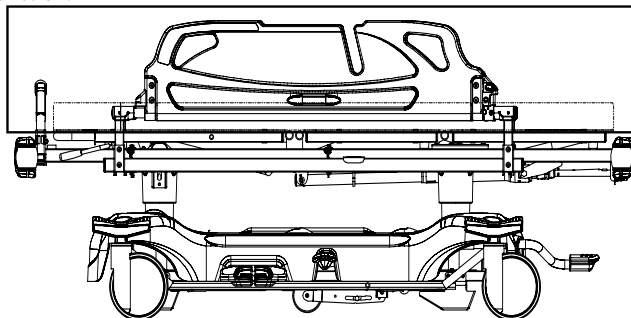
p.34



Each section base is collectively called a mattress base.

【Applied part】

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



1 INTENDED USE / PART NAMES

【Collapsible Side-Rail Type】



The page number shown next to this symbol indicates where the related explanation can be found.



p.31

Collapsible side-rail

Head end



Foot end



p.36

Urine bag hook

【PK-8131B】

Head end



p.34

Knob bolt



p.34

X-ray cassette tray






p.35

X-ray cassette tray

2 SAFETY PRECAUTIONS

■ **Be sure to read these safety precautions before hand 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 as "WARNING", "PROHIBITED" and "CAUTION" to indicate the degree of hazard or injury that may result from improper use. **These are important safety precautions that must be strictly observed.**

 WARNING	Indicates actions that may result in death or serious injury (broken bones, pressure or paralysis) if the indication is ignored.
 PROHIBITED	Indicates prohibited actions. These are described as "Prohibited" in the accompanying documents.
 CAUTION	Indicates actions that may result in light personal injury (bruises, wounds, or cuts) or property damage if the indication is ignored.

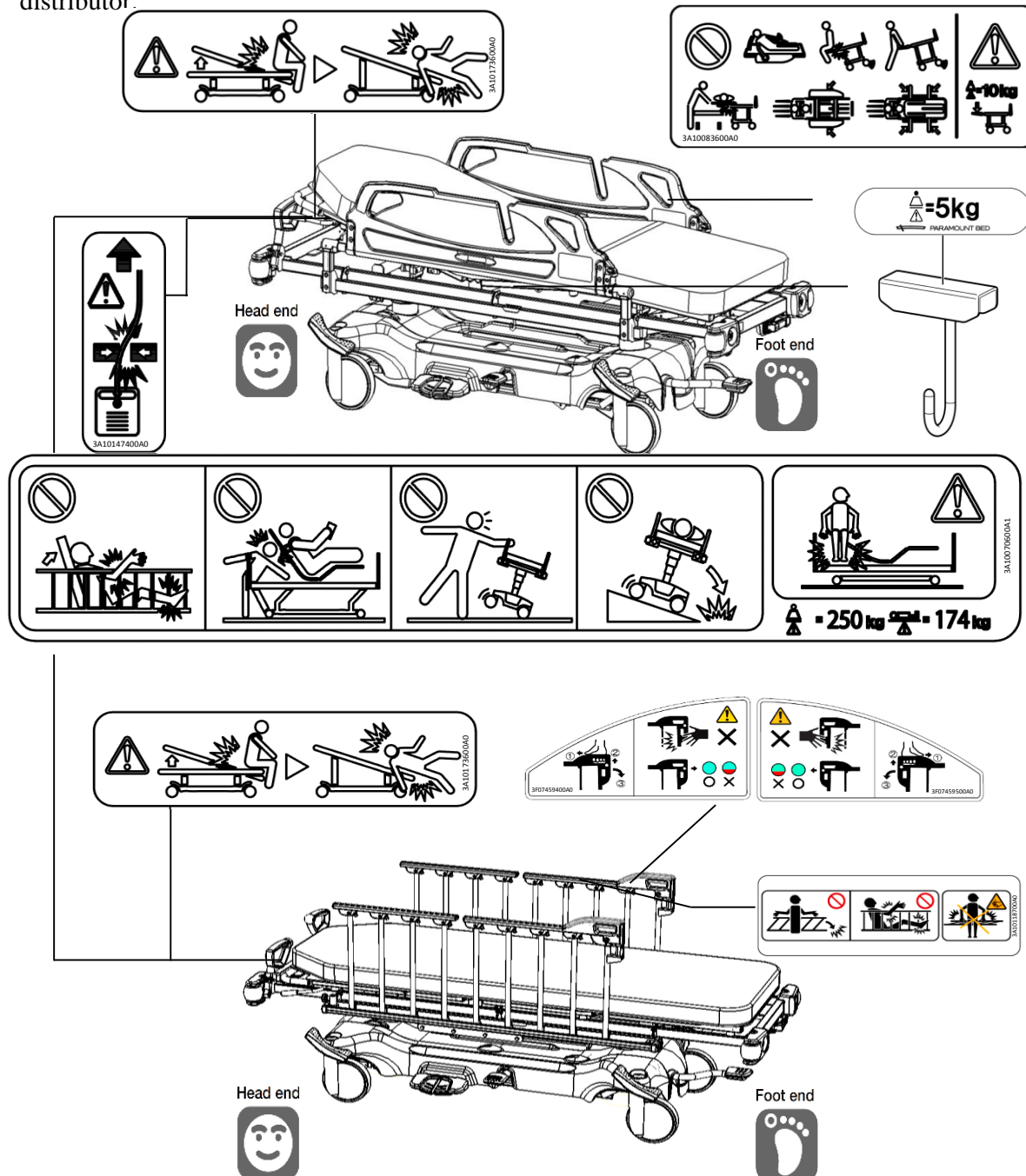
Among items described in SAFETY PRECAUTIONS, [Gap related notes] are especially important because ignoring them could result in serious life-threatening accidents. Be sure to read these notes and use the product safely and properly. Be especially careful to check patients who might act in unexpected ways or cannot maintain their posture independently.

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

2 SAFETY PRECAUTIONS

[Safety label]

- Precautions requiring special attention by persons using the stretcher are affixed as pictured in the figure.
- If the safety label is removed or defaced, replace it with a new one obtained from your distributor.



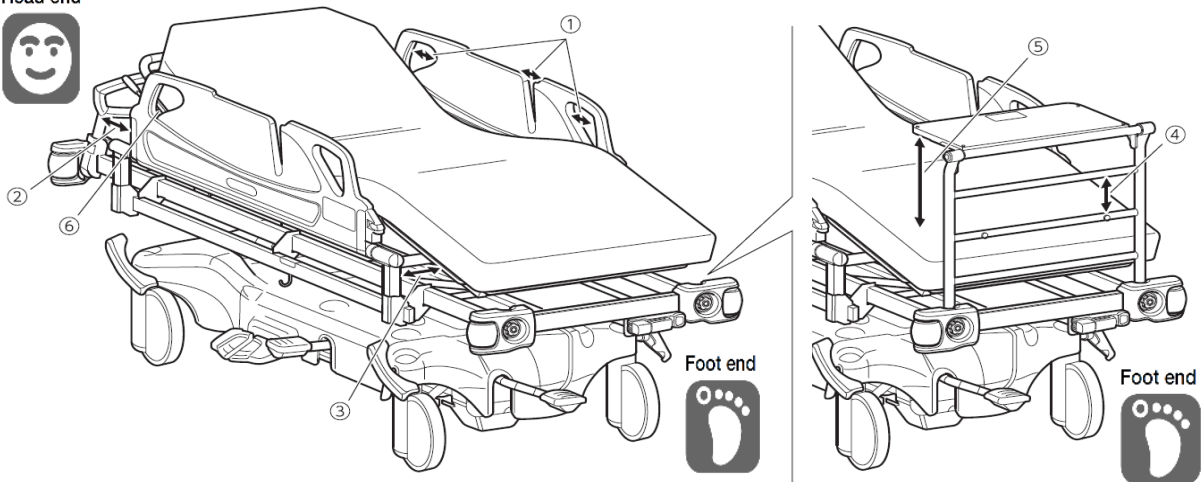
WARNING

■ Be careful with gaps

- There are gaps in this stretcher, transfer board and collapsible side-rail. When any part of the body (especially the head or neck) enters the gap, the patient might not be able to withdraw, and there is a risk of injury.
- Be especially careful to check patients who might act in unexpected ways or cannot maintain their posture independently.

- ① Gaps in the transfer board/collapsible side-rail
 - ② Gaps between the transfer board / collapsible side-rail and the transport handle
 - ③ Gaps between the transfer board / collapsible side-rail and the mattress
 - ④ Gaps in the foot board
 - ⑤ Gaps between the foot board with writing table and the mattress
 - ⑥ Gaps between the mattress base, the transfer board / collapsible side-rail and the mattress
- ※ The foot board is optional.

Head end



2 SAFETY PRECAUTIONS

WARNING

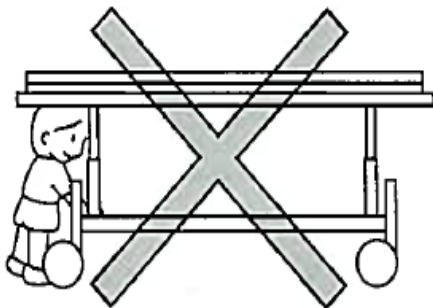
■ Do not operate the stretcher with a body part placed in the gap.

- If the stretcher is operated with a body part placed in the gap, the part may get caught, resulting in injury.
- Be especially careful to check patients who might act in unexpected ways or cannot maintain their posture independently.

■ Do not insert a hand (fingers) or legs between the frame and the mattress base during operation.

- The body part may get caught in the gap between the lowered mattress base and the frame, resulting in injury.
- Be especially careful to check patients who might act in unexpected ways or cannot maintain their posture independently.

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



- There is a risk of getting caught between the moving part on the stretcher and the frame or the transfer board, resulting in injury. Check to make sure there are no people or object around the stretcher before operating the stretcher.
- Be especially careful to check patients who might act in unexpected ways or cannot maintain their posture independently.

■ Be careful not to allow any part of the body to enter the gap between the stretcher and wall or surrounding obstacles.

- There is a risk that a part of the body may get caught, resulting in injury.
- Be especially careful to check patients who might act in unexpected ways or cannot maintain their posture independently.

■ Check the patient's conditions when adjusting the base angle or the stretcher height or operating the transfer board.

- If the patient on the stretcher moves when the base angle or the bed height is adjusted or the transfer board is operated, the patient may fall off the stretcher or get caught in the gap, resulting in injury. Perform the adjustment while supporting patients who cannot maintain their posture independently.

WARNING

■ Make sure that there is nothing in the accessories attachment holes, when mounting the optional items.

- If there are obstacles in the accessories attachment holes, you cannot mount the optional items, and the patient may fall off the stretcher or get caught in the gap, resulting in injury.

■ Pay attention to prevent tubes (drains) from getting caught.

- Pay attention to prevent tubes (drains) from getting caught in the gap between the transfer board and the mattress. The tubes might be squashed.

■ Take care to prevent a patient from falling off the stretcher even when transfer boards are raised.

- The patient may fall off the stretcher from the end of transfer board or the head end or the foot end of the stretcher, resulting in injury.

- If the patient bends forward over the transfer board, and may fall off the stretcher, resulting in injury.

- It is not effective enough to prevent the patient from falling off the stretcher when raising the back section base.

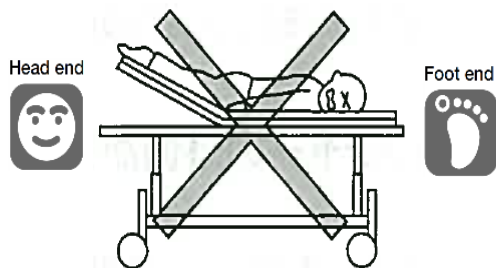
- Be especially careful to check patients who might act in unexpected ways or cannot maintain their posture independently.

■ When leaving the stretcher area temporarily taking your eyes off the patient, check the mattress base angle and the stretcher height, and raise the transfer boards.

- If a physician, nurse or caregiver leaves the stretcher area or temporarily takes their eyes off the patient, adjust the mattress base angle and the stretcher height according to the patient's condition, and raise the transfer boards because there is a slight chance that the patient could fall off the stretcher.

- As necessary, use the restraint belts.

■ Use the stretcher in the correct orientation.



- Lying down on the stretcher with the feet at head end and the head at the feet end induces an unnatural posture during stretcher operation (base angle) which may result in injury.

2 SAFETY PRECAUTIONS

WARNING

■ Do not perform any angle adjustment when the patient is lying face down or on their side (in any posture other than lying face up).

- There is a risk of injury caused by extending the joints backward.

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

- The stretcher may move when a patient gets into or out of the stretcher, resulting in an unexpected injury.
- When moving the stretcher, operate the caster operation pedal and unlock the casters. (See p.25)

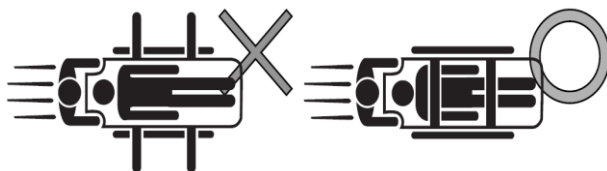
■ Pay attention to the casters which face outward .

- If the casters face outward, the patient may fall over the casters, resulting in injury.
- As necessary, force the casters face inward when locking the casters.

■ When moving the stretcher, watch your step.

- Your leg may bump into the caster operation pedal or your foot may get caught by a caster, resulting in injury.

■ When transporting a patient, fasten the two pairs of restraint belts, raise the transfer boards, and continuously monitor the patient.



- The patient may fall off the stretcher, resulting in injury.

■ Be careful moving the stretcher on a steep slope.

- The stretcher may tip over, causing an injury. Prevent it by moving the stretcher with two people or taking other measures according to the situation.

■ Pay attention to prevent the patient from being compressed by the back section base and the knee section base.

- If the angle between the back section base and the knee section base may be low by operating the mattress base, the patient might be compressed, resulting in injury.

■ Do not sit down on the end of the stretcher.



- The stretcher may incline, and there is a risk of injury caused by the patient falling off the stretcher.

WARNING

■ Prevent the patient from slipping off the stretcher.



● The patient may slip off the stretcher and get injured. The attendant should support the patient's body to prevent the patient from slipping off the stretcher. When the stretcher tilting operation is performed, fasten the restraint belts to the patient and monitor.

■ Do not combine the stretcher with products other than suitable products (including mattresses) specified by Paramount Bed.

● For options directly attached to the stretcher such as mattresses or foot board, use suitable product specified by Paramount Bed. Using other products may create unintended gaps, cause interference between products, or lower the product safety, which may result in injury or operational failure.

■ Do not operate the transfer board from inside the stretcher.

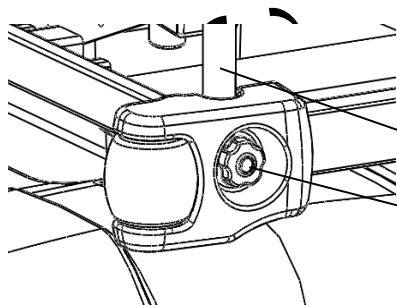
● The transfer board may drop suddenly and there is a risk of injury caused by the patient falling off the stretcher.

■ Do not jump on the stretcher.



● This may cause fall or injury

■ Fasten the setscrews when any optional attachments are mounted in the accessories attachment holes.



Option

Setscrew

● Otherwise, there is a risk of injury from falling off the stretcher if options unexpectedly comes loose and tips over.

■ Be careful with the gas spring on the back section base.

● If the gas spring on the back section base is took apart or burned, the gas spring might be broken or inner gas may belch, resulting in injury.

■ Use the stretcher accordingly to the patient's medical condition.

● The stretcher operations may adversely affect the medical conditions of patients with specific symptoms. Before the patient or a family member operates the stretcher, make sure that the physicians or nurses explained details given in the instruction manual and proper usage to suit the patient's medical condition.

■ Keep the stretcher away from fire.

● Do not use thermal appliances such as heaters near the stretcher. Otherwise, the stretcher may be damaged or deformed, or even catch fire.

2 SAFETY PRECAUTIONS

WARNING

■ Pay attention to prevent the clothes from tangling in the stretcher.

- The patient may fall off the stretcher when getting on or off the stretcher, resulting in injury.
- If you operating the stretcher when the clothes tangle in the stretcher, the clothes are plucked, resulting in injury.

■ Inspect the stretcher regularly.

- The product exhibits wear and deterioration according to the frequency and conditions of use. Inspect for loose parts, the operation of moving parts on the stretcher, and the presence of damage regularly. There is a risk of an unexpected injury.

■ Prevent patients from holding the transfer boards during transport (use) or operation of the transfer boards.

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

■ Do not use the stretcher in the oxygen tent.

- There is a risk of fire.
- When using oxygen administration device, use mask type or artificial respirator type only.

■ Do not use the stretcher when using flammable anesthetic agent.

- There is a risk of fire.

PK-80**B (Transfer Board Type) Only

■ When locking the transfer boards in the horizontal level position, be sure that the two pairs of restraint belts are properly fastened.

- Otherwise, the patient may fall off or the stretcher may tip over, resulting in an injury.

■ 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.

PK-81**B (Collapsible Side-Rail Type) Only

■ When side rail is folded, be careful not to let tubes (drain) to be caught.

- There is a risk of pinching tubes (drain).

PROHIBITED

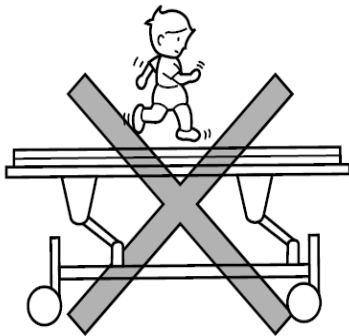
■ Do not allow the stretcher to be operated by a child aged 12 or under, or someone deemed incapable of comprehending the operation of the stretcher.

- There is a risk of unexpected injury by mistake.

■ Do not use the stretcher for infants or small children.

- This stretcher is not designed for infants or small children. There is a risk of injury caused by the infant or small child getting caught in the gap.
- There is a risk that infants may fall off the stretcher, even when the transfer boards are used.

■ Do not stand on the stretcher.



- There is a risk of injury caused by the person falling off the stretcher or falling down, or the stretcher could be damaged or deformed. Pay close attention to children.

■ Do not use the stretcher in a heavily electrically-charged area such as near an MRI.

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

■ Do not attach a restraint belt to the transfer board.

- The belt could unexpectedly come off, resulting in injury, or the stretcher could get damaged or deformed.

■ Do not perform the stretcher operation such as raising the back or knee section base with a restraint belt attached.

- The patient's body may be squeezed resulting in injury or the stretcher may get damaged or deformed.

■ Do not repair or modify the product or its components.

- This may create unintended gaps or may cause abnormal operation, resulting in injury.

2 SAFETY PRECAUTIONS

PROHIBITED

■ The stretcher should not be used by two or more persons.

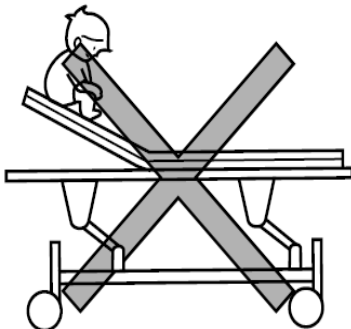
● This stretcher is designed for use by one person. When used by two or more persons, the bed could be damaged, resulting injury. User's maximum weight is 174kg. If a physician, nurse, or caregiver needs to get on the stretcher for a short time, confirm the following conditions before hand.

- The total weight of the person to get on the stretcher must not exceed 174kg.
- The mattress base has been lowered all the way and is flat.

■ Do not apply more than the safe working load on the stretcher.

● The stretcher could be damaged, resulting in injury. The safe working load of this stretcher is 2450N (250kgf). The safe working load is the maximum load with which the stretcher can be operated and is the total load of the user's weight and incidental items including the mattress and options.

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



● The back section base supports are subjected to excessive weight, and may be damaged or deformed.

■ Do not stand on the operation pedals.

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

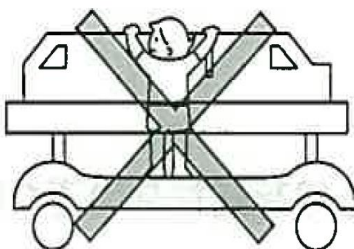
■ Do not place an object weighing 15 kg or more on the base cover.

● The base cover deform or get damaged.

■ Do not place an object that sticks out from the base cover.

● When the stretcher is lowered, object may get caught between the frame and the base cover, and object and the base cover may get deformed or damaged.

■ Do not climb on the base cover.



● There is a risk of injury from falling off the stretcher, and a risk damage to or deformation of the stretcher.

PROHIBITED

■ Do not place the stretcher on the inclination which angle is 5 degree or more.

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

■ Do not use the mattress when the fastener is open.

- If liquid get inside of the mattress from fastener, urethane foam may deteriorate.

■ Do not place something cold (ex. ice pack or refrigerant) on the mattress directly.

- If the mattress gets cold, urethane foam may deteriorate by condensation.

■ Do not sleep face down.

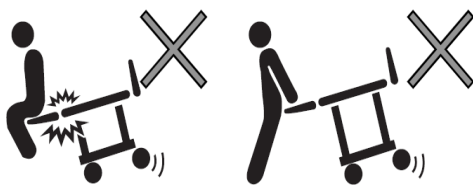
- If the patient sleeps face down for a prolonged time, there is a risk of asphyxiation because the mattress cover is not breathable.

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

- There is a risk that the solvents contained in insecticide may damage, discolor, or dissolve casters or other resin parts of the stretcher. Check for damage caused by insecticide because damaged or dissolved parts may cause an unexpected injury.

PK-80**B (Transfer Board Type) Only

■ 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.



- The person may fall down or the stretcher may tip over, resulting in an injury or stretcher damage.

■ Do not place an object weighing 10 kg or more on the transfer board when it is locked in a horizontal level position.

- Doing so may result in an injury, malfunction or deformation.

2 SAFETY PRECAUTIONS

PROHIBITED

PK-80**B (Transfer Board Type) Only

■ Do not move 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.

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



● The patient may fall off or the stretcher may tip over, resulting in an injury or stretcher damage.

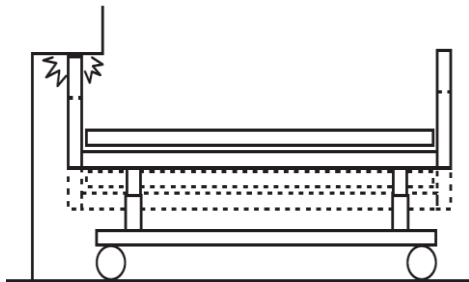
PK-81**B (Collapsible Side-Rail Type) Only

■ Do not sit on the side-rails or lean against them.

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

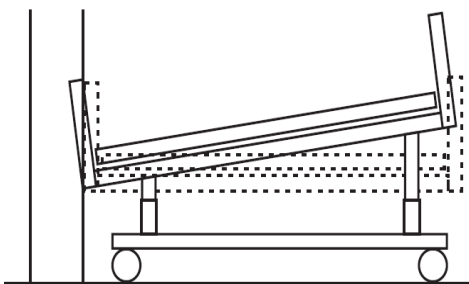
CAUTION

■ When performing the height adjustment or inclination angle adjustment, pay attention not to hit the wall, beam, or power outlet on the wall.



● The stretcher or wall may be damaged or deformed. Make sure that the stretcher does not hit the wall, beam, or power outlet during the height adjustment or inclination angle adjustment.

■ When setting up the stretcher, make sure that there is at least 15 cm clearance from the wall.



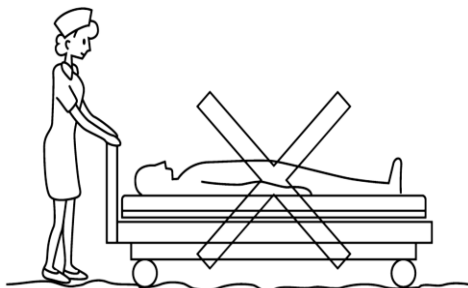
Secure at least 15 cm clearance from the wall.

● The main frame moved back and forth during inclination angle adjustment and could hit the wall, causing damage or deformation of the stretcher.

■ Check around the stretcher before operating the stretcher.

● The stretcher operations may damage objects located around the stretcher, or may cause the stretcher to be damaged or deformed.

■ Avoid transporting over uneven floors.



● This may cause damage to the stretcher, or deformation or failure of the stretcher. If moving on uneven floor is necessary, move the stretcher as slow as possible.

2 SAFETY PRECAUTIONS

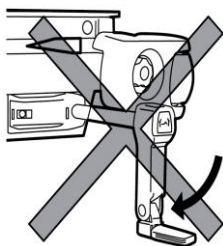
CAUTION

■ The angle of the leg section base must be adjusted by at least two persons from both sides of the stretcher. (PK-8*2*B only)



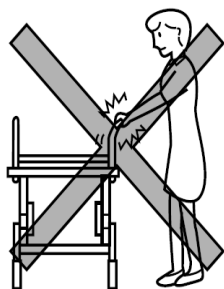
● If only one person attempts to adjust the angle, the person may get caught between the leg section base and main frame, resulting in injury.

■ Do not excessively turn the handle for adjusting the angle of knee section base. (PK-8*2*B only)



● Be careful when adjusting the angle of knee section base. Turning the handle excessively may result in the handle damage or malfunction.

■ Do not move the stretcher by holding onto the transfer board or collapsible side-rail only.

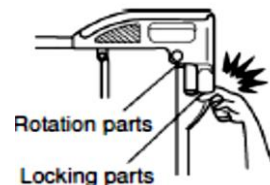


● Otherwise, this will apply a large force to the stretcher board and there will be a risk of damage or deformation.

PK-81**B (Collapsible Side-Rail Type) Only

■ When operating the releasing lever, pay attention not to allow the hands or fingers to get caught.

● There is a risk of injury as a result of being caught by the rotation parts or locking parts.



■ Do not place hands, and fingers on supportive bars, when using collapsible side-rail.

● There is a risk of being caught in the part, resulting in injury.

3 INSTALLATION

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

- Locations expose to direct sunlight
- Locations near heat sources such as a stove or heater
- Locations which is heavily electrically charged such as near an MRI.
- Locations that has a high oxygen level
- Locations exposed to excessive amounts of water vapor or oil vapor
- Locations that tend to be exposed to high temperatures, high humidity, low temperatures or dry conditions

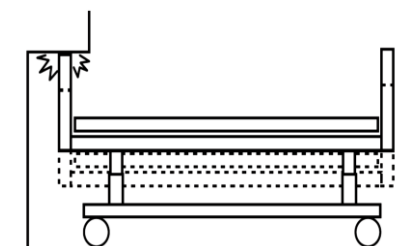
※ The optimum ambient conditions for the stretcher are as follows.

Temperature 10°C to 40°C / Humidity 30%RH to 75%RH / Atmospheric pressure 700hPa to 1060hPa.

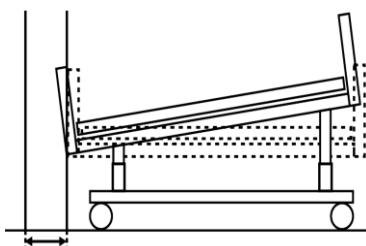
- Locations with large amount of dust, smoke, salt, sulfur, or corrosive substances
- Locations with poor ventilation
- Locations exposed to vibrations or shocks (including during transportaion)
- Locations where the floor is not strong enough
- Locations where the floor is not level

CAUTION

● When performing the height adjustment or inclination angle adjustment, pay attention not to hit the wall, beam, or power outlet on the wall. The stretcher or wall may be damaged or deformed. Make sure that the stretcher does not hit the wall, beam, or power outlet during the height adjustment or inclination angle adjustment.



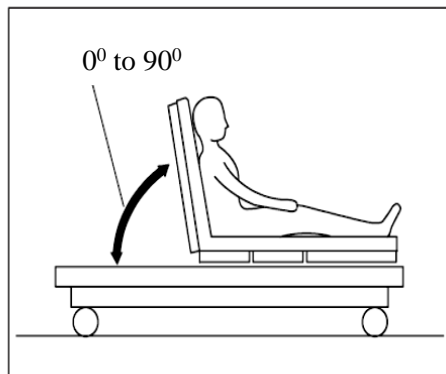
● When setting up the stretcher, make sure that there is at least 15 cm clearance from the wall. The main frame moved back and forth during inclination angle adjustment and could hit the wall, causing damage or deformation of the stretcher.



Secure at least 15 cm clearance from the wall.

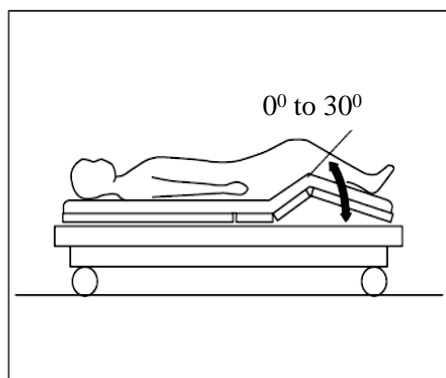
4 OPERATION OVERVIEW

Back raising



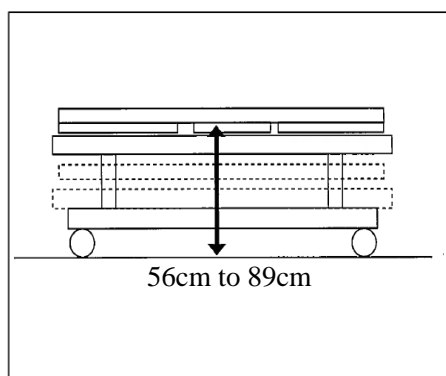
● The back section base can be manually adjusted from an angle 0° to 90° .
(see p.21)

Knee raising



● The knee section base can be manually adjusted from an angle 0° to 30° .
(see p.22)

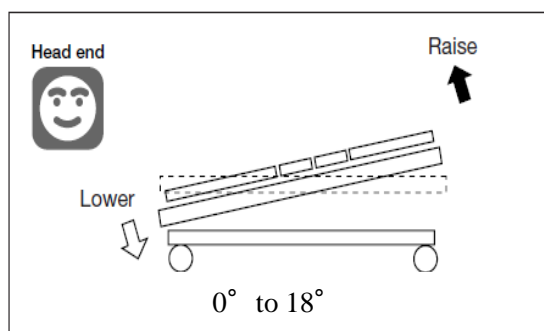
Height adjustment



● The stretcher height can be adjusted from 56cm to 89cm, measured from the floor to the mattress base.
(see p.23)

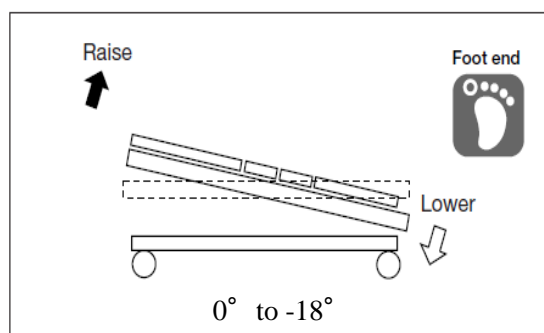
※ In the case of PK-8*3*B, the stretcher height can be adjusted from 57cm to 90cm, measured from the floor to the mattress base.

Tilt (Trendelenburg position)



- The stretcher head end can be lowered to an angle of 18° .
(see p.24)

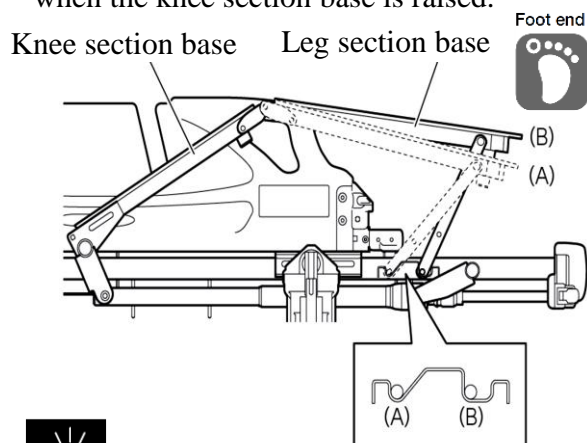
Tilt (Reverse Trendelenburg position)



- The stretcher foot end can be lowered to an angle of -18° .
(see p.24)

※PK-8021B/8022B/8121B only

■ The angle of the leg section base can be manually adjusted in two levels. Normally, the leg section base stay is at position (A). Adjustment to position (B) should be performed when the knee section base is raised.



- When moving in direction (B), hold the end of the leg section base and lift. The leg section base stay slides toward the foot end. Slowly lower the leg section base when the desired angle is achieved.

- When moving in direction (A), apply one hand to the leg section base stay, hold the end of the leg section base with the other hand, and lift a little. Then, lower the leg section base so that the leg section base stay enters (A).



- When returning the knee section base is to the horizontal position, always return the leg section base stay to position (A).

⚠ CAUTION

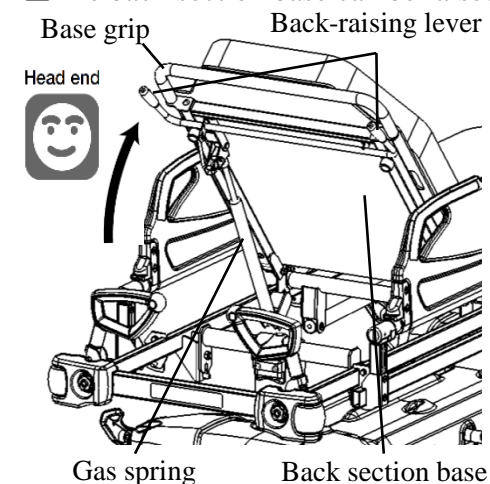
- The angle of the leg section base must be adjusted by at least two persons from both sides of the stretcher. If only one person attempts to adjust the angle, the person may get caught between the leg section base and main frame, resulting in injury.

1. Back raising

⚠ WARNING

- Make sure that a body part (especially head or neck) is not placed in the gap between the back section base and the frame when operating the back-raising lever. The part may get caught, resulting in injury.
- Make sure the casters are locked whenever a back section base operation is performed. There is a risk of injury to the patient if the stretcher moves during a back section base operation.
- Remove the restraint belts (2 pairs) whenever a back section base operation is performed (see p.27). There is a risk of injury.
- Use the restraint belts (2 pairs) after a back section base operation. There is a risk of the patient falling off the stretcher, resulting in injury.

■ The back section base can be raised or lowered by gripping the back-raising lever.

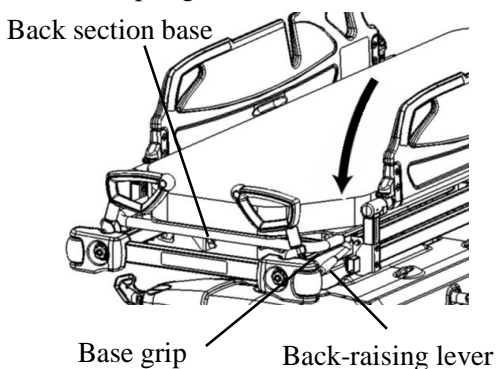


[Raising the back section]

- Grasp the back-raising lever together with the base grip, and raise the back section base. The back section base is fixed at the position at which the hand is removed from the back-raising lever.

⚠ CAUTION

- Be careful when raising the back section base, it may rise swiftly, resulting in injury. Be more careful especially when the patient is not on the stretcher.



[Lowering the back section]

- While supporting the back section base with one hand, grip the back-raising lever together with the base grip and use your fingers to pull up the lever to lower the back section base. The back section base is fixed at the position at which the hand is removed from the back-raising lever.

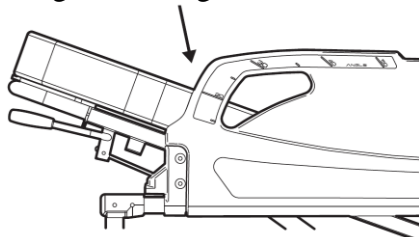
PK-80**B (Transfer Board Type) Only

[Angle indicator]

- You can read the back section angle by the angle indicator on the side of the transfer boards when the transfer boards are raised.

The reference surface is upper surface of the mattress.

The angle in the figure is 20° .



- Use the angle indicator to get a rough indication.

2. Knee raising (PK-8*2*B only)

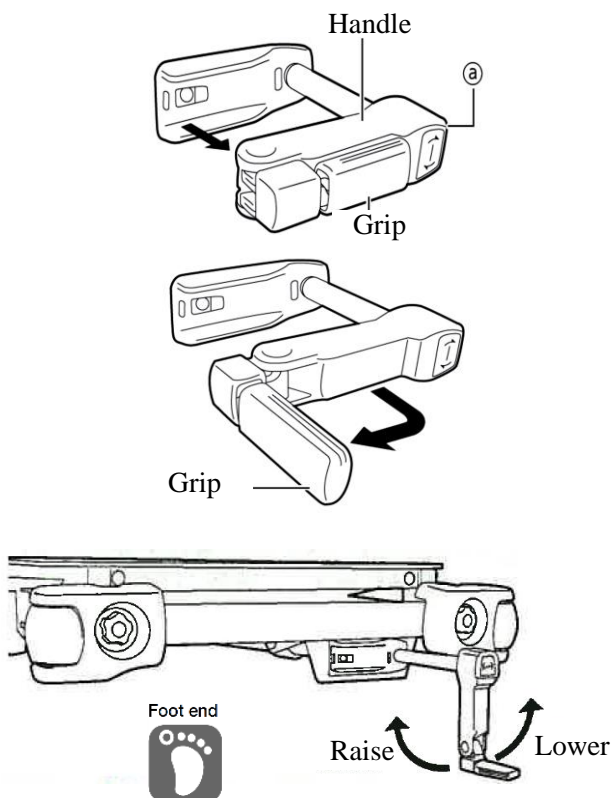
WARNING

- Make sure that a body part (especially head or neck) is not placed in the gap between the back section base and the frame when operating the knee-raising handle. The part may get caught, resulting in injury.
- Make sure the casters are locked whenever a knee section base operation is performed. There is a risk of injury to the patient if the stretcher moves during a knee section base operation.
- Remove the restraint belts (2 pairs) whenever a back section base operation is performed (see p.27). There is a risk of injury.
- After use, be sure to press the handle into the original position. If it is out, it may catch people's leg, causing an injury.
- Do not place your leg on the handle. You may fall down and get injured or the handle may break.

CAUTION

- Do not operate the handle slily. There is a risk of injury or malfunction.
- Using the handle without completely pulling it out may cause a failure. Be sure to pull it out completely before use.
- Do not excessively turn the handle. Turning the handle excessively may result in the handle damage or malfunction.

■ Handle operation is enabled by grasping the knee-raising handle crank and pulling it forward.



① Grip part (a) of the handle to be operated and pull it out the end.

② Raise the grip vertically, hold the grip, and turn the handle.

● To raise the knee section base, turn the handle clockwise.

● To lower the knee section base, turn the handle counterclockwise.

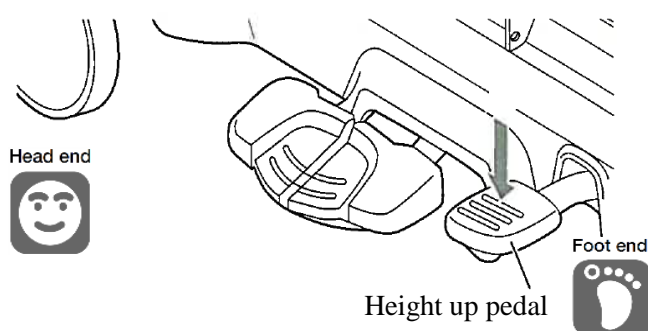
5 OPERATION PROCEDURES

3. Height adjustment

WARNING

● Make sure the casters are locked whenever the stretcher height operation is performed. There is a risk of injury to the patient if the stretcher moves during the stretcher height operation.

■ The stretcher height can be adjusted by operating the pedals.

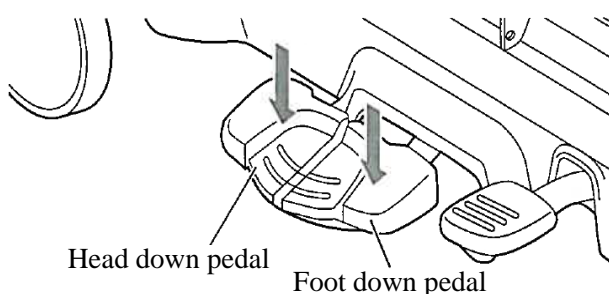


[Raising the stretcher height]

● Depress the Height up pedal repeatedly.

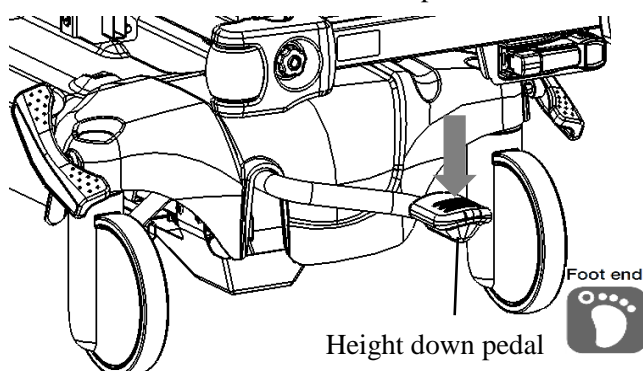
WARNING

● Be careful not to be caught between the floor and the pedal because when operating Up pedal, the opposite pedal is lowered too. There is a risk of injury.

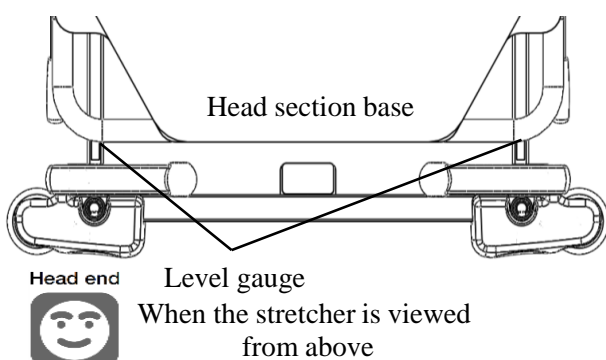


[Lowering the stretcher height]

● Depress the both of Head down pedal and Foot down pedal.
Or depress the Height down pedal.



■ The level gauge can be used to check whether the stretcher is level when returning the stretcher to the horizontal position after performing a height adjustment or tilting operation.



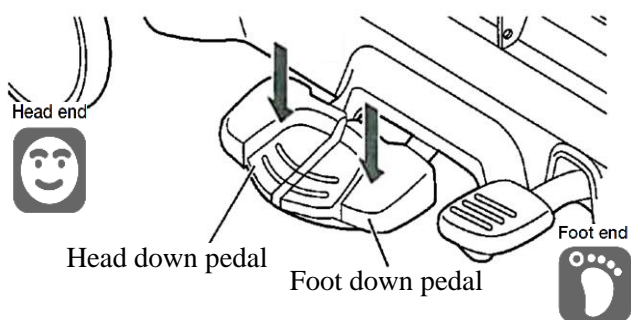
● To make the stretcher level, operate the Head down pedal or the Foot down pedal individually while observing the level gauge at the head end of the stretcher and making adjustments until the air bubble is at the center of the meter. Refer to the "Tilting" section on the 24 page for details on operating the pedals.

4. Tilting (Trendelenburg / Reverse Trendelenburg)

WARNING

- Make sure the casters are locked whenever the stretcher tilting operation is performed. There is a risk of injury to the patient if the stretcher moves during the stretcher tilting operation.
- Make sure to attach the mattress to the mattress base, fasten the restraint belts to the patient and monitor the patient whenever the stretcher tilting operation is performed. The patient may fall off the stretcher, resulting in injury.

■ The tilting angle of the stretcher can be adjusted by operating Head down pedal and Foot down pedal. Moreover, the pedals can be used to level the stretcher if a difference has occurred in the height of the head and foot ends when height adjustment was performed.



[Pedal operation]

- Make sure that the stretcher height is the highest.
- Depress the Head down pedal or the Foot down pedal until the tilting angle of the stretcher is appropriate. The angle is fixed if the pedal is taken off.



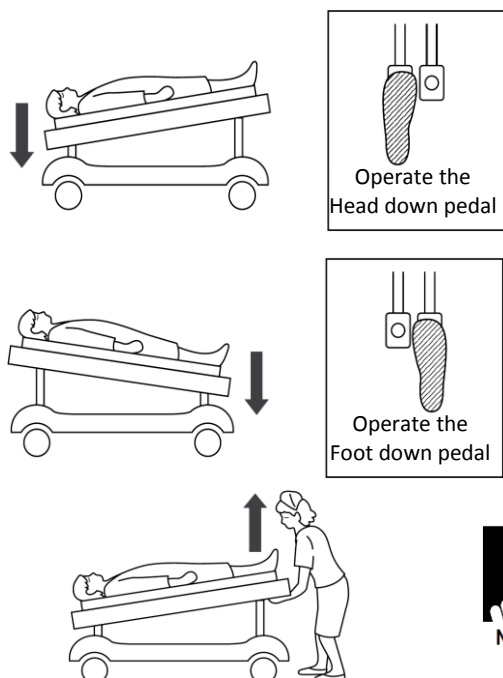
- It may be difficult to lower the frame depending on the weight of the patient or the angle of the frame. In that case, push down on the frame.

〈Lowering the head end〉

- Depress the Head down pedal which is set on the head side.

〈Lowering the foot end〉

- Depress the Foot down pedal which is set on the foot side.



- The tilting angle of the stretcher can be adjusted quickly by lifting the foot end of the main frame in an acute situation.
- ※ It cannot be lowered.

CAUTION

- Do not lift the head end of the main frame. There will be a risk of damage or deformation.
- If the head end of the main frame is lifted accidentally, lower the stretcher to the lowest position immediately. Otherwise there will be a risk of damage or deformation.

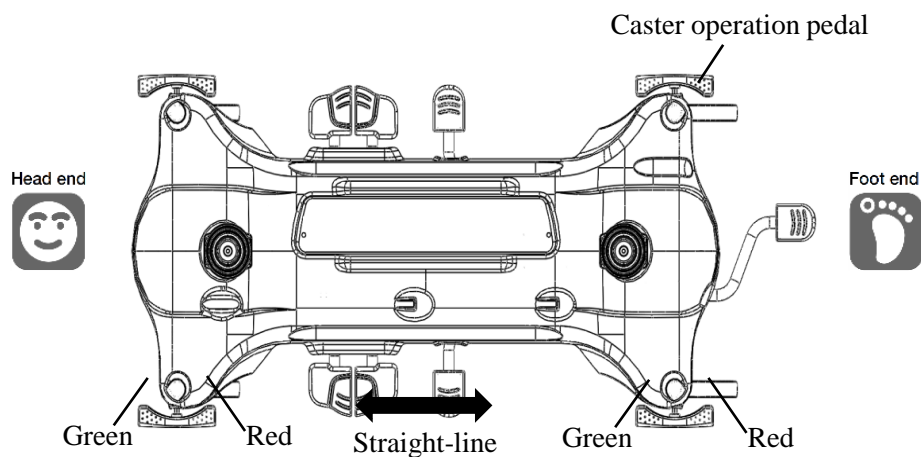
5 OPERATION PROCEDURES

5. Casters

⚠ WARNING

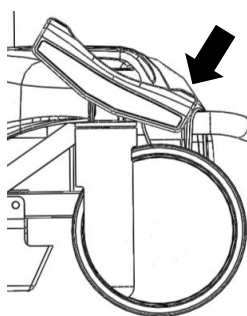
● Lock the casters at all times except when moving the stretcher. The patient may be injured getting on or off the stretcher should it move.

■ Any one of the four pedals provided at each corner of the base frame (above the casters) can be used to switch the following three status.



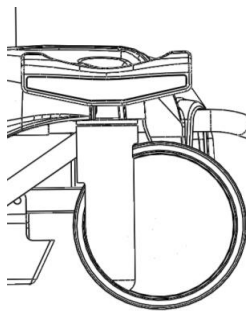
① Locking the four wheels (Lock position)

Depress the red pedal to lock swiveling and rotation of the four wheels.



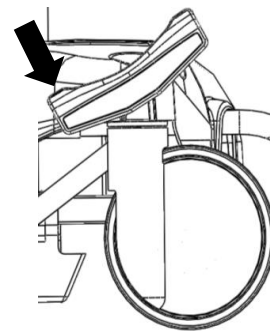
② Unlocking the four wheels (Free position)

Returning the pedal to the horizontal position unlocks the four wheels, allowing them to swivel and rotate.



③ Straight-line movement (Steering position)

Depress the green pedal so that the center-wheel is effective.
(See the next page)



⚠ CAUTION

● Do not attempt to forcibly move the stretcher when the casters are locked (fixed), as doing so will cause malfunctions.

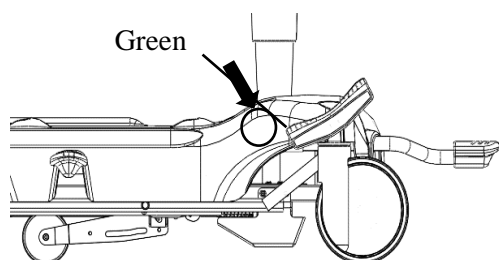


● Inspect the caster regularly. Depending on the frequency of use and the environment, caster will exhibit wear and deterioration. (High-temperature and high-humidity condition may accelerate the deterioration.)

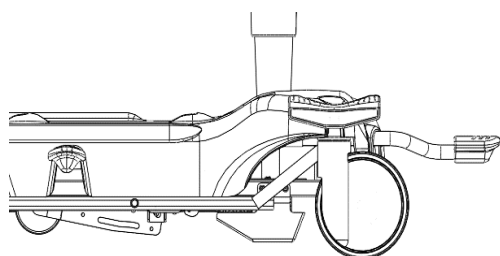
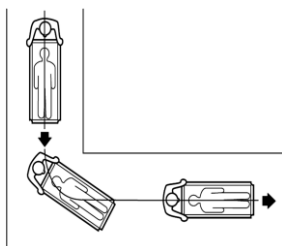
● The anti-electrostatic caster is mounted on the head and left side.

■ Center wheel system

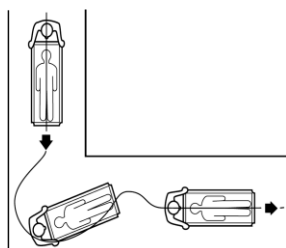
● Moving the center wheel located at the center of the stretcher to be in contact with floor improves cornering, tracking, and allowing stable steering of the stretcher.



When the center wheel is in contact with floor



When the center wheel is not in contact with floor



[When the center wheel is ON]

● Depress the caster operation pedal (green) 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 patient's 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]

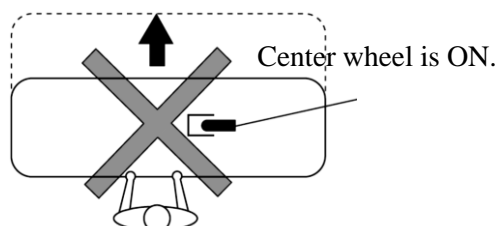
● Returning the pedal to the horizontal position sets the center wheel to OFF to allow the stretcher to move in any direction (including sideways). This mode is convenient for moving short distances, such as moving within a room.

〈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, be sure to set the center wheel to OFF.



6. Restraint belt

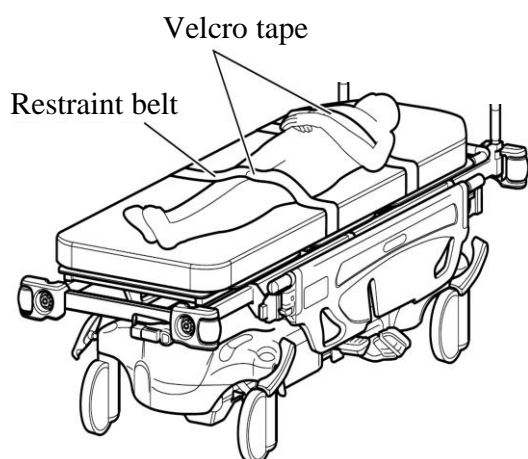
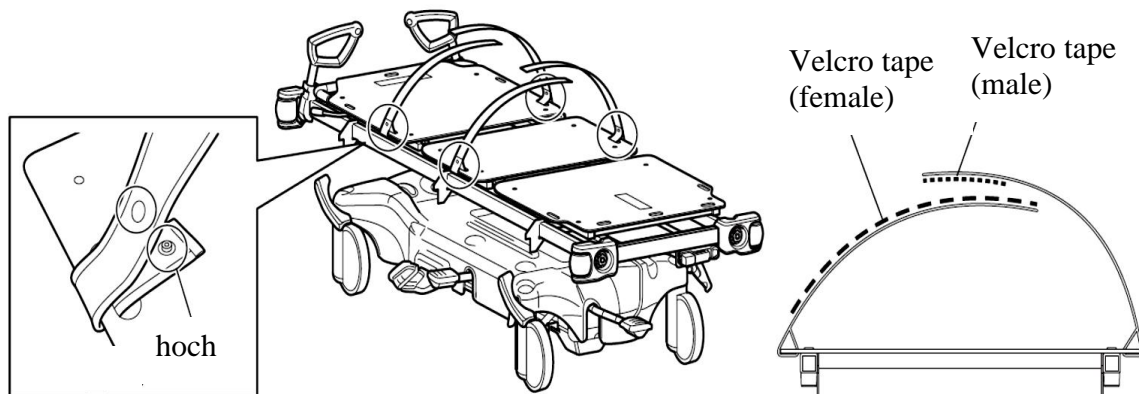
⚠ WARNING

- Do not perform the stretcher operation such as raising the back or knee section base with a restraint belt attached. The patient's body may be squeezed resulting in injury or the stretcher may get damaged or deformed.
- 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.
- Fasten the restraint belts to designated positions. Otherwise, there is a risk of an unexpected injury or malfunctions.
- Do not use the restraint belts if the patient can detach them unexpectedly. The patient may fall off the stretcher, resulting in injury.
- Do not fasten cross the restraint belts. There is a risk of an injury.

■ Restraint belts are designed to secure patients in order to prevent them from falling off. When transporting a patient or performing the tilting operation, be sure to firmly fasten the two restraint belts and raise the transfer boards.

[Attaching the restraint belts]

- Pass the restraint belts into the designated positions as shown in figure and hook on. Pay attention to the aspects of the restraint belts, and align the Velcro tape (male) and the Velcro tape (female) to fasten.

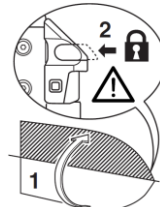


- ① Make sure that the restraint belts are fastened.
- ② Fasten the restraint belts on the patient and make sure there is no slack.

7. Transfer board (PK-80**B only)

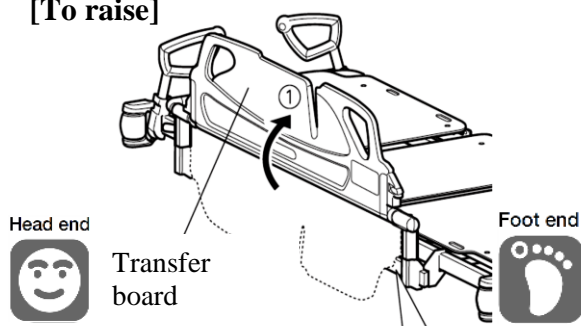
WARNING

● 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 shows in the indicator window). If they are not locked properly (red shows in the indicator window), the transfer boards may lower and patient may fall off and get injured.




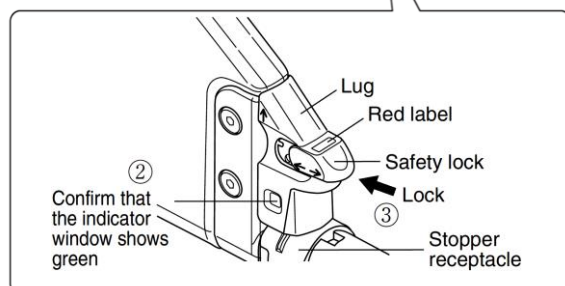
■ Transfer boards can be used to protect a patient on the stretcher from falling off and also as a bridge between the stretcher and a bed when transferring a patient to/from a bed. They can be used as an arm table by locking them in the horizontal level position.

[To raise]



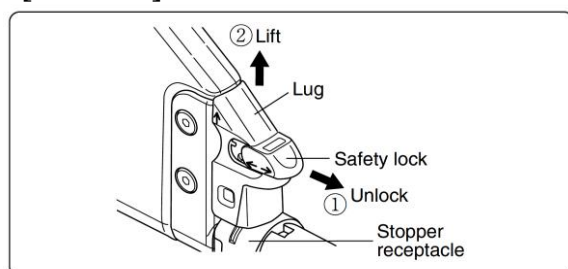
To raise

- ① 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.
- ② Confirm that the stopper is properly working (green shows in the indicator window).
- ③ 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.



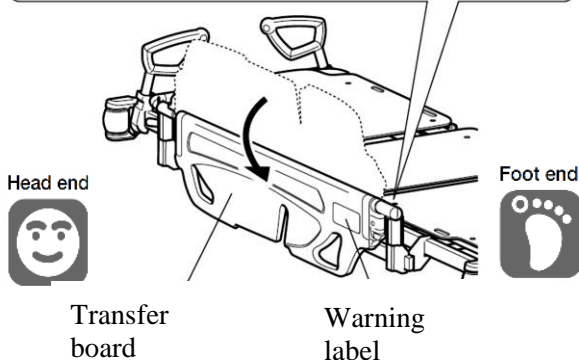
● **Make sure that sheets don't get caught in the stopper or safety lock because they hinder their functions.**

[To lower]



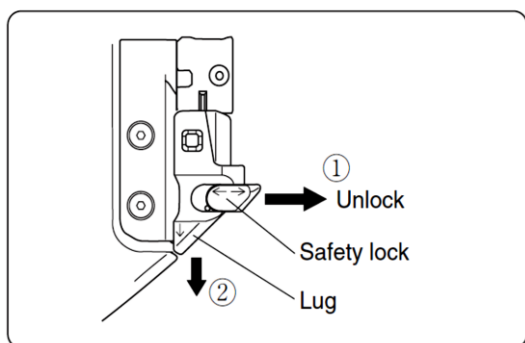
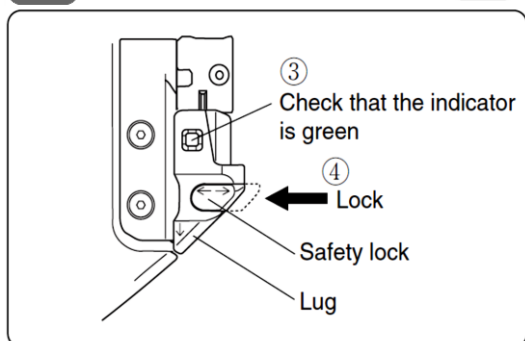
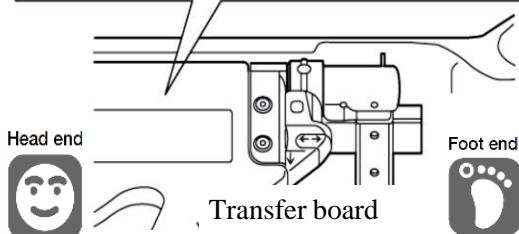
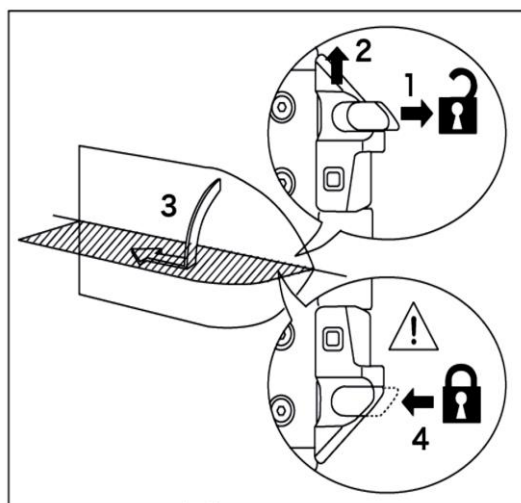
To lower

- ① Release the safety lock.
- ② While lifting the lug, slowly lower the transfer board.



5 OPERATION PROCEDURES

■ 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

[Locking the transfer board in a horizontal level position when it is up]

- ① Release the safety lock and lower the transfer board in a horizontal level position while lifting the lug. (see **To lower** in p.28)
- 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.

[Locking the transfer board in a horizontal level position when it is down]

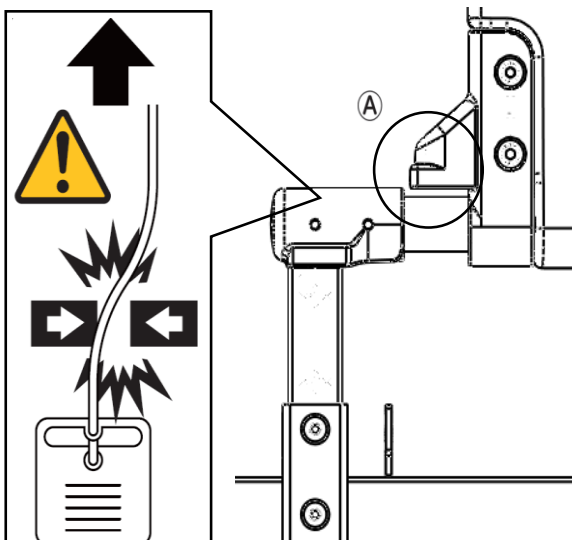
- ① Slowly lift the transfer board to a horizontal level position. (see **To raise** in p.28)
- ② Move the transfer board in the direction shown by the arrow ← while keeping it in a horizontal level position. The lug lowers and the stopper works.
- ③ Confirm that the stopper is properly working (green 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.

⊘ PROHIBITED

- Do not place an object weighing 10kg or more on the transfer board when it is locked in a horizontal level position. Doing so may result in an injury, malfunction, or deformation.
- Do not lock the transfer board in a horizontal level position except when using as an arm table. The patient may get injured or the stretcher may get damaged or deformed.



⚠ WARNING

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

⚠ CAUTION

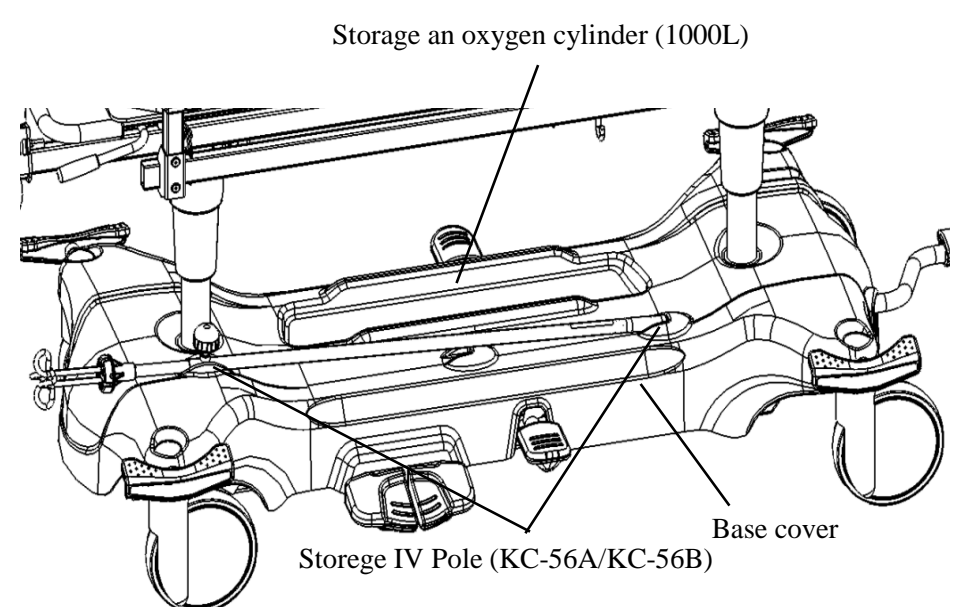
● Do not operate the transfer board while placing fingers on part (A) in the figure to the left. Fingers may get caught, resulting in an injury.


8. Base Cover

⊘ PROHIBITED

● Do not place an object weighing 15 kg or more on the base cover. The base cover may deform or get damaged.

■ The base cover can be used to store the oxygen cylinder (1000L) and IV Pole (KC-56A/KC-56B).





● IV Pole (KC-56A/KC-56B) is optional.

5 OPERATION PROCEDURES

9. Collapsible side-rail (PK-81**B only)

■ Collapsible side-rail can be used to protect a patient on the stretcher from falling off .

[To raise] (to use the collapsible side-rail)

- When the top bar of the collapsed side-rail is lifted, the stopper automatically locks the side rail.
- At this time, check that the indicator window shows completely green.



NOTE!

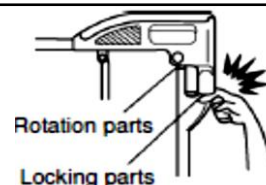
● If the indicator shows even a small amount of red, the stopper is not locked completely. In such a case, lift the top bar again and check that the indicator window shows completely green before use.

⚠ WARNING

● If the collapsible side-rail is not completely locked (red shows in the indicator), it may suddenly collapse when the patient put a hand on it or hold it. In such a case, the patient could fall off the bed or the hand or arm may get caught, resulting in injury.

⚠ CAUTION

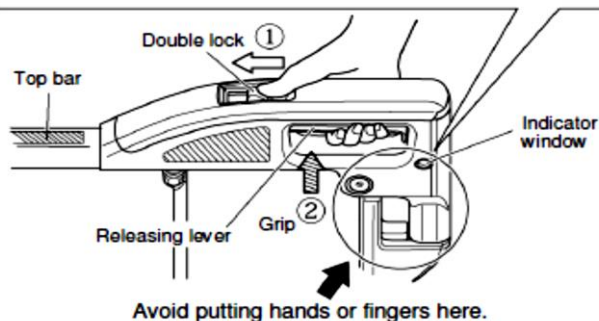
● When operating the releasing lever, pay attention not to allow the hands or fingers to get caught. There is a risk of injury as a result of being caught by the rotation parts or locking parts.



[To Folding]

Explanation of indicator window

- Green — Completely locked status
- Red — Incomplete locking if even a little red is showing



● Use your finger to slide the double lock all the way in the direction indicated by the arrow ①.

● While sliding the double lock, grip the releasing lever in the direction indicated by the arrow ② and slowly fold the side rail.



NOTE!

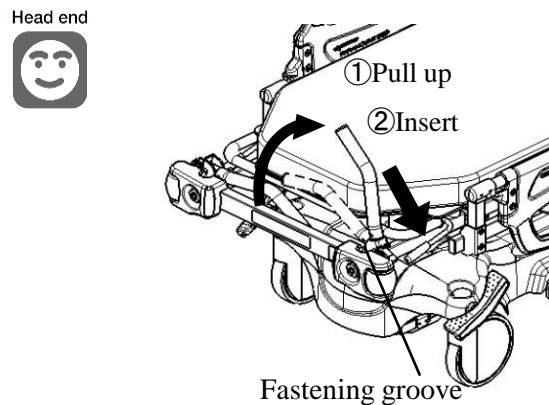
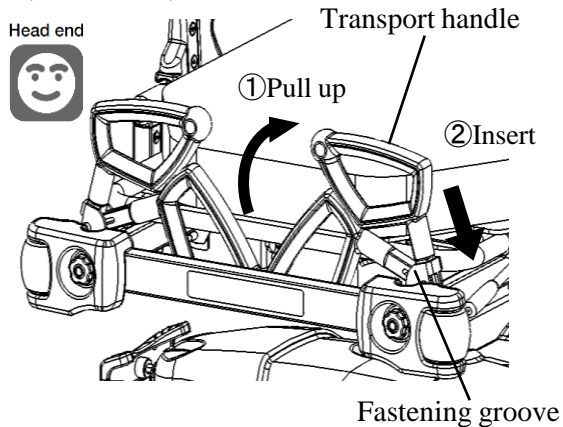
● The releasing lever cannot be operated without operating the double lock. Follow the correct operation

⚠ WARNING

● When folding the side rails, proceed slowly. Releasing the hands in the middle of the operation or slamming the rail down could cause injury or damage to the side rail.

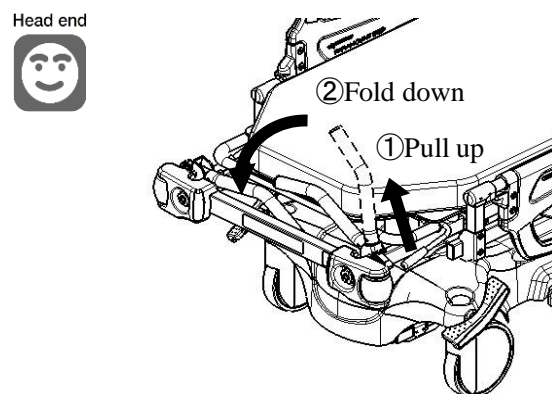
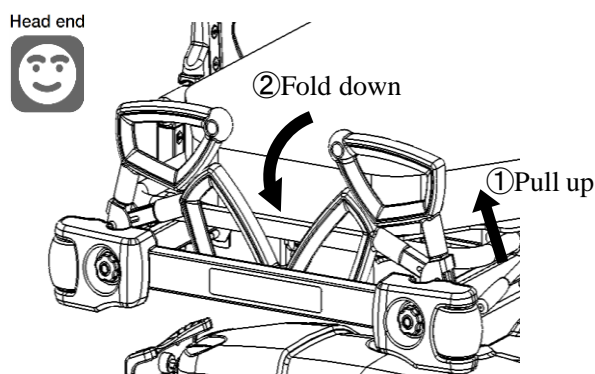
10. Transport handle

- Transport handles are attached at the head end.
(PK-8**1B)



[Using the transport handles]

- ① Pull up the transport handles at both sides.
- ② Slowly lower them into the fastening grooves.



[Storing the transport handles]

- ① Lift the transport handles up and out of the grooves.
- ② Push the transport handles inward, and return them to their original positions.

⚠ WARNING

- Store the transport handles except when transporting the stretcher. When any part of the body (especially the head or neck) enters the gap, and there is a risk of injury.
- When using the transport handles, do not pull them up in the vertical direction. If the handles came loose from the fastening grooves and tip over, there is a risk of injury from falling.

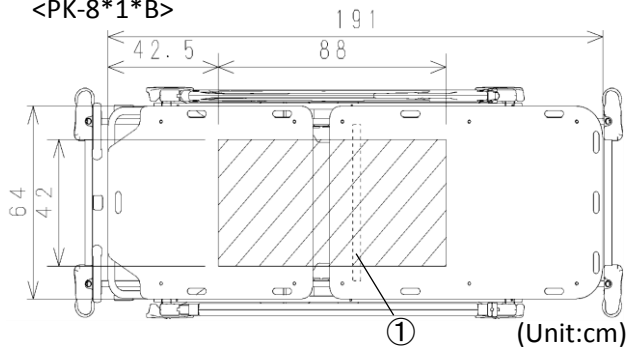
⚠ CAUTION

- Always use the transport handles when moving the stretcher. Using any other part of the stretcher to move it may cause the stretcher to become deformed or damaged, or cause injuries.

11. X-ray imaging (using C-arm; PK-8*1*B/8*2*B only)

■ The C-arm enables X-ray TV imaging to be performed in the shaded area in the following illustration.

<PK-8*1*B>

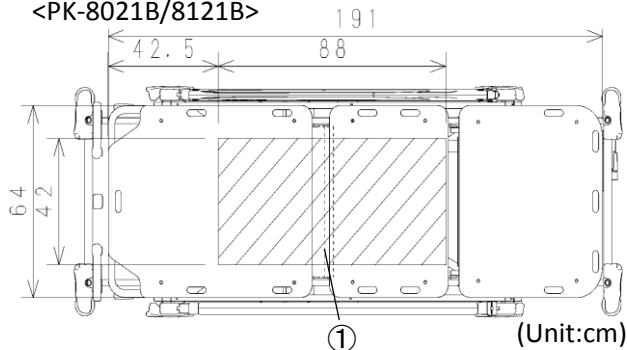


● Please note that the part of the bed frame marked ① will appear in the X-ray.

● X-ray TV imaging cannot be performed using the C-arm when the stretcher is in the inclined position.

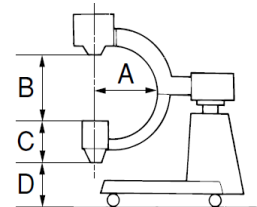
● Please note that the external dimensions of the C-arm vary according to the manufacturer. Select an arm that meets the specified conditions.

<PK-8021B/8121B>

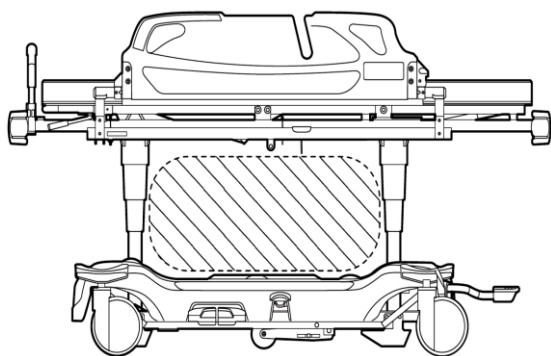


Permissible C-arm dimensions (unit:cm)

- A: At least 41
- B: At least 57
- C: Up to 43
- D: Up to 29



Using the C-arm to perform X-ray TV imaging



① Raise the stretcher to highest position, and raise the transfer board / collapsible side-rail at the side on which the C-arm will be inserted.

② Insert the C-arm projector into the space between the main frame and the base cover (the shaded area in the illustration to the left).

③ Adjust the C-arm to the position at which the X-ray will be taken.



● If the transfer board / collapsible side-rail on the opposite side of the C-arm proves to be an obstacle during X-ray imaging, lower the transfer board / collapsible side-rail.

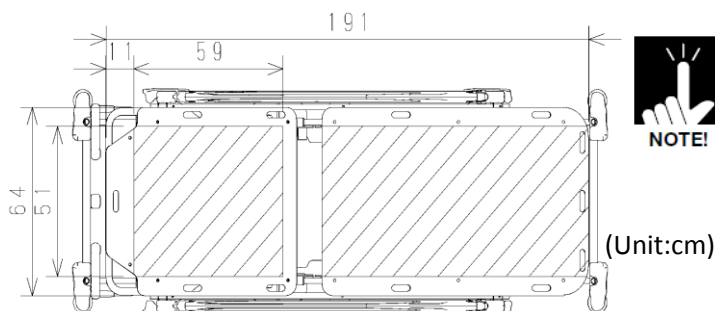
5 OPERATION PROCEDURES

12. X-ray imaging (using X-ray cassette; PK-8*3*B only)

■ X-ray imaging using the cassette-based system can be performed within the range indicated by the shaded area in the diagram below.

■ Imaging can be performed with the back-section base in either raised or horizontal position.

■ Both of back and foot section using cassette which can be perform X-Ray.

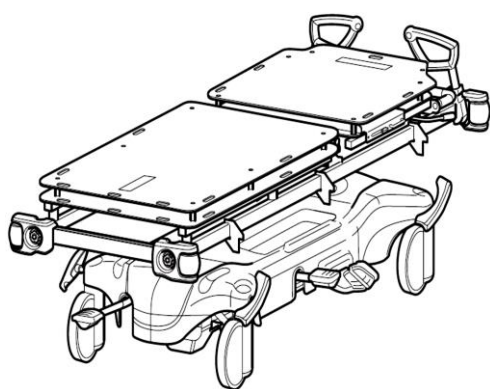


● Imaging cannot be performed when the stretcher is in an inclined (Trendelenburg or reverse Trendelenburg) position.

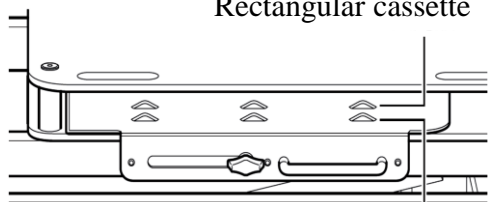
(Unit:cm)

Usable cassette sizes

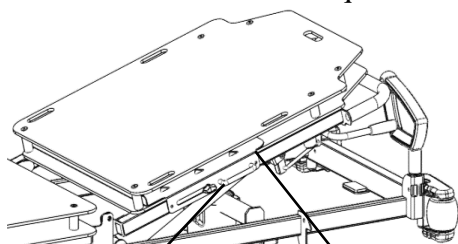
- Size..... Rectangular cassette: Up to 38.8 × 46.4cm
Square cassette: Up to 38.8 × 38.8cm
- Thickness.... Up to 1.5cm
- Weight..... Up to 4.0kg



Rectangular cassette



Square cassette



Knob bolt

X-ray cassette tray

[Setting the cassette]

● Confirm the imaging part and the cassette size, and insert the cassette into between the bases, and move the cassette to proper position.

※The cassette can be set on the center of the stretcher by suiting the cassette end to Δ marking.

[Setting the cassette when raising the back section base]

● Confirm the imaging part and the cassette size, and set the cassette on the X-ray cassette tray. And then make sure that the knob bolts loosen, and move the X-ray cassette tray to proper position. Finally, fix the X-ray cassette tray by rotating the knob bolts.



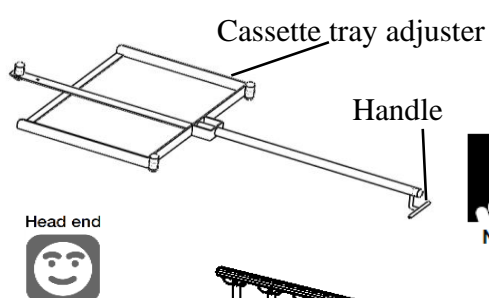
● Make sure that the X-ray cassette tray is fixed by tightening the knob bolts.

NOTE!

CAUTION

● The cassette cannot be fixed. Do not operate the stretcher on inserting the cassette. There is a risk of malfunction.

[Setting the cassette (How setting to leg section)]

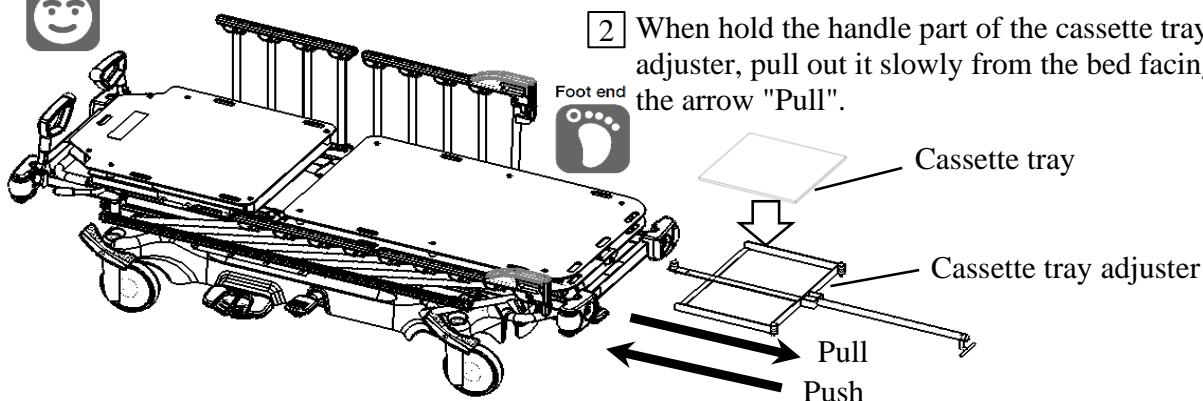


- 1 Confirm the imaging part and the cassette size, and insert the cassette into between the bases, and move the cassette to proper position.



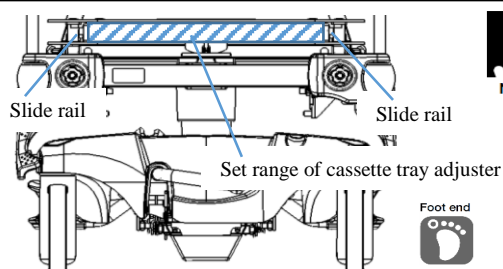
●To set the cassette tray in the Leg section, use the cassette tray adjuster installed in the main unit. Please note that cassette tray can not be used alone.

- 2 When hold the handle part of the cassette tray adjuster, pull out it slowly from the bed facing the arrow "Pull".



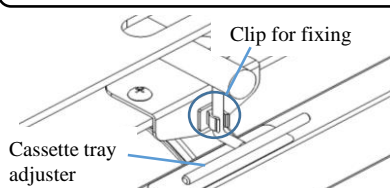
- 3 Set a cassette in the cassette tray adjuster.

- 4 Insert the cassette tray adjuster slowly facing the arrow "Push" along slide-rail that installed in the main body.



[Set range of cassette tray adjuster]

●Cassette tray adjuster is set between slide rail that installed under the bottom of main body.
 ●Check the set range of cassette tray adjuster as shown on the left figure.
 ●Cassette tray adjuster can not be used in out of this range.



- 5 Set cassette tray adjuster to an arbitrary position.

- 6 When does not use cassette tray adjuster, fix cassette tray adjuster firmly to main body clip as shown on the left figure.

⚠ CAUTION

- Bed is set in horizontal condition when using the cassette tray adjuster. Cassette tray adjuster may jump out suddenly, causing injury.
- Insert cassette tray adjuster between slide rails that installed in main body. If use other part between the slide rails, could cause cassette tray adjuster and the bed to be damaged.
- When pulling out the cassette tray adjuster, please pay attention to the surrounding area. Cassette tray adjuster may causing injury to people or things.
- Keep cassette tray that placed cassette tray adjuster in specified size. There is a risk of injury by falling etc.
- When does not use cassette tray adjuster, make sure to fix it using clip for fixing cassette tray adjuster. It may jump out suddenly and causing injury.

13. Urine bag hook

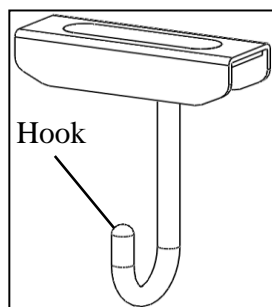
PK-80**B (Transfer Board Type) Only

■ The stretcher is equipped with urine bag hooks under the transfer boards. They can be used to hang articles such as urine collection bags.

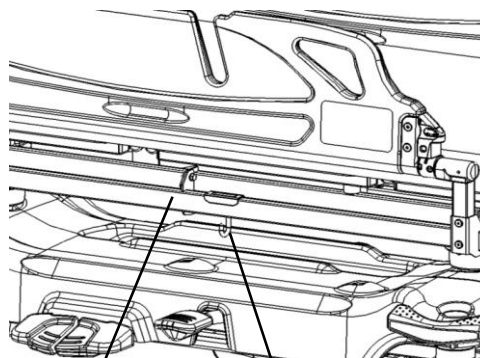
■ Hooks can be attached in some different positions. Attach them according to the position or length of the tube.

[Attaching the hook]

● Attach the urine bag hook on the frame as shown in the figure.



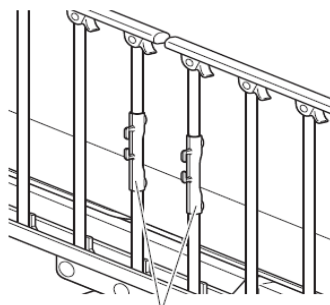
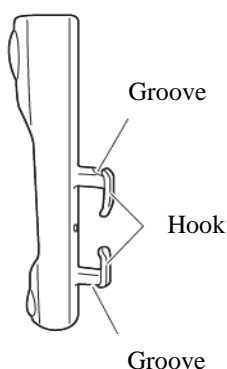
Urine bag hook



Frame

Urine bag hook

PK-81**B (Collapsible Side-Rail Type) Only



Urine bag hook

■ The urine bag hook is a product for attaching a urine bag or drainage bag.

■ The urine bag hook is used by attaching it to the side-rail.



■ In order to prevent loose urine bag etc., unexpectedly, please hang by using rubber band in the groove of up and bottom hook.

⚠ WARNING

- When attaching articles such as urine collection bags, do not raise or lower the transfer board. It may pull the tube, inducing an injury, or deform or damage the urine collection bags.
- Load capacity of Transfer Board Type's hook is 5 kg, Collapsible Side-Rail Type's hook is 3kg. Do not hang an article exceeding the load capacity because it may damage or deform the hook or frame, resulting in injury.

⚠ CAUTION

- If the hook is deformed, do not use it. There is a risk of an injury by touching with the deformed part.
- Adjust the stretcher height so that the urine bag is not on the floor.

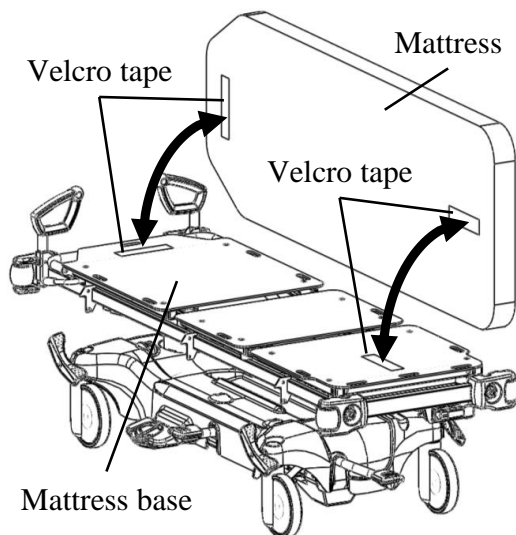
WARNING

- Do not use the stretcher when the mattress is not placed. The body part (fingers of hands or legs) may get caught in the gap between the mattress bases, resulting in injury.
- Be sure to use the suitable mattress specified by Paramount Bed. Using other mattresses may create unintended gaps, cause interference between products, or lower the product safety, which may result in injury or operational failure.
- When attaching the mattress, make sure the Velcro tape on the mattress align with the Velcro tape on the base.

CAUTION

- The mattress is not to prevent bedsores. Using long time may cause bedsores.
- Do not raise the back section base to an angle that exceeds 30° as far as possible. If an angle of 30° is exceeded, pressure, friction, and shear forces will be applied to the patient's hips and buttocks, which may cause pressure sores. If circumstances require that the back section base be raised to an angle of greater than 30° , restrict the time of use at that angle, and monitor the patient's conditions.

■ Attach and remove the mattress as explained below.



[Attaching the mattress]

- As shown in figure, place the mattress on the base, making sure the Velcro tape on the mattress align with the Velcro tape on the base.

[Removing the mattress]

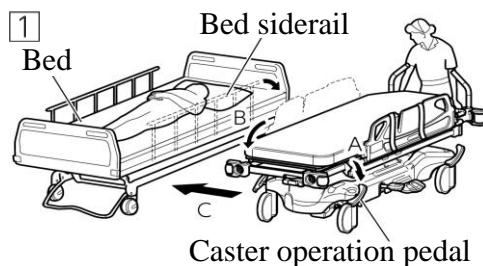
- Lift the mattress off the base.

7 PATIENT TRANSFER

(PK-80**B only)

- The patient should be transferred by at least two persons for safety.

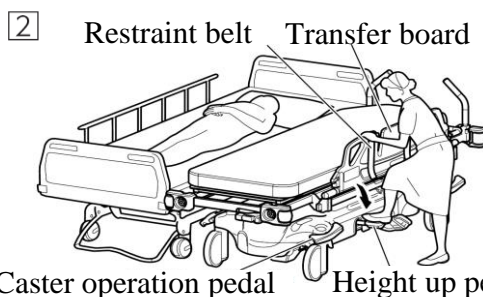
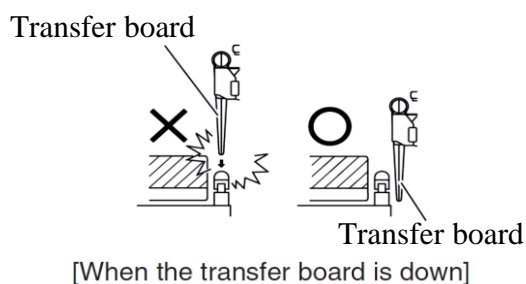
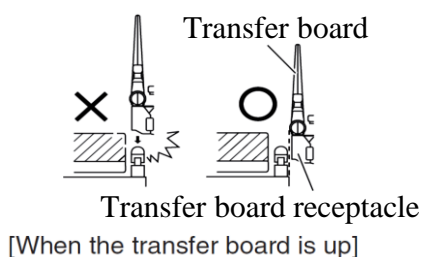
[To transfer a patient from a bed to the stretcher]



- 1 A: Return the caster operation pedal of the stretcher to the horizontal position.
B: Lower the transfer board and the side rail of the bed.
C: Place the stretcher by the bed. (See p.25 and p.28)

! WARNING

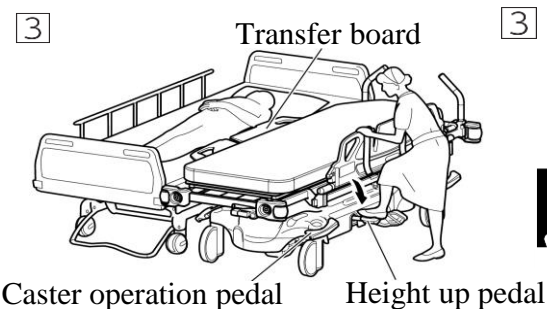
- When placing the stretcher by a bed, prevent the transfer board or transfer board receptacle of the stretcher from sitting on the side rail (foldable type) of the bed. Otherwise, the side rail of the bed or the transfer board may get damaged or deformed.



- 2 Depress the caster operation pedal (red) of the stretcher to lock the casters and then align the height of the stretcher to the height of the bed. (See p. 23 and p.25)



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



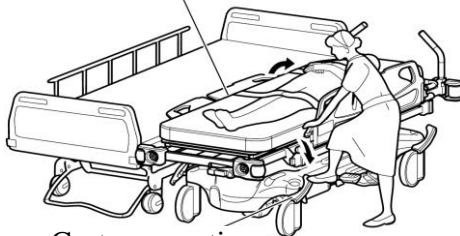
- 3 Unfasten the restraint belts of the stretcher and move them so that they will not hinder the transfer procedure. And then transfer the patient onto the stretcher.



- When there is a wide gap between the stretcher and the bed, the transfer board can be placed over the bed.
- If using transfer tool, please read the tool's instruction manual.

4

Area with a risk of fingers getting caught



Caster operation pedal

4

Be sure to firmly secure the patient with the front and back restraint belts. (See p.27)

Return the caster operation pedal to the horizontal position to unlock the casters, move the stretcher slightly away from the bed, and raise the transfer board.

⚠ WARNING

- Do not transfer by using the mattress. The patient may get injured by falling off the stretcher, or the mattress or the stretcher may get damaged or deformed.
- When transporting a patient, secure the patient to the mattress using two pairs of restraint belts. Otherwise, the patient may fall off and get injured.

⚠ CAUTION

- 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.

5

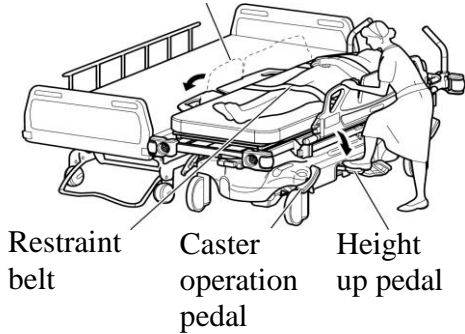
Move the stretcher. When transporting the stretcher, depress the caster lock pedal (green) to set the center wheel to ON for more stable stretcher movement and easier control. To move sideways, return the caster operation pedal to the horizontal position. (See p. 25 and 26)

7 PATIENT TRANSFER

- The patient should be transferred by at least two persons for safety.

[To transfer a patient from the stretcher to a bed]

1 2 Transfer board



- 1 Return the caster operation pedal to the horizontal position, place the stretcher by the bed, and depress the caster operation pedal (red) of the stretcher to lock the casters. (See p.25)

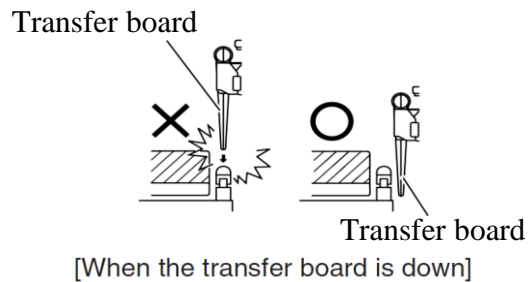
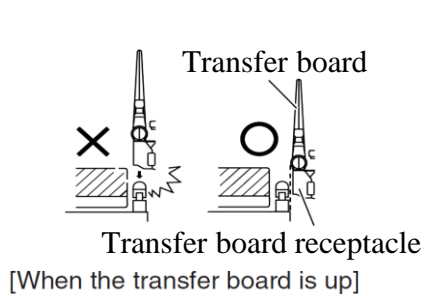
- 2 Align the height of the stretcher to the height of the bed, and then lower the transfer board and the side rail of the bed. (See p. 23 and p.28)



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

! WARNING

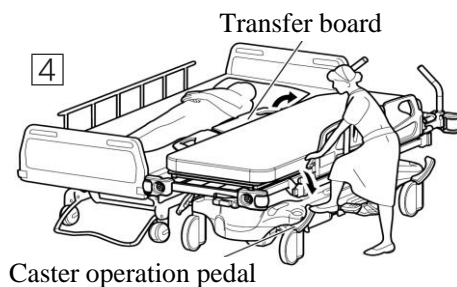
- When placing the stretcher by a bed, prevent the transfer board or transfer board receptacle of the stretcher from getting on the side rail (foldable type) of the bed. Otherwise, the stretcher tip over, resulting in an injury or the side rail of the bed or the transfer board may get damaged or deformed.



- 3 Detach the restraint belts from the patient and place them in an area where they will not hinder the transfer procedure. And then transfer the patient onto the bed.



- If using transfer tool, please read the tool's instruction manual.



- 4 Return the restraint belts to the original position, raise the transfer board, and unlock the casters to move the stretcher. When moving the stretcher, depress the caster operation pedal (green) to set the center wheel to ON for more stable stretcher movement and easier control. (See p. 25 and p.26)

8 SUITABLE PRODUCTS

1. Suitable products table

WARNING

- Use suitable products after confirming that the combination with the stretcher is correct. Using the stretcher with the wrong combination of suitable products could result in injury or could damage the products. The part number of each option is written on the safety label and on the carton box.
- Do not use suitable products other than those specified in this instruction manual. This may create unintended gaps or may damage or deform the product, resulting in injury.
- Make sure that there is nothing in the accessories attachment holes, when mounting the suitable products. If there are obstacles in the accessories attachment holes, you cannot mount the suitable products, and the patient may fall off the stretcher or get caught in the gap, resulting in injury.



NOTE!

- Suitable products may be changed due to specification changes or combinations. In addition, some suitable products may not be listed in the table due to new release or discontinuation of sales. For any queries on suitable products, contact Paramount Bed (see p.56) or your distributor.

Suitable product ^{*1)*2)}	Model No. ^{*1)}	Reference page
Oxygen cylinder holder	PC-5041	42
IV pole	KC-56A, KC-56B, EC-562	43
Footboard with writing table	KC-860	44

*1) These products may not be available in some countries or regions. For details, contact Paramount bed (see p.56) or your distributor.

*2) In some countries or regions, some of the medical device or its accessories fall under the category of medical devices. For details, contact Paramount Bed (see p.56) or your distributor.

2. Oxygen cylinder holder (PC-5041)

This oxygen cylinder holder is made for attaching to the medical device to use the oxygen cylinder.

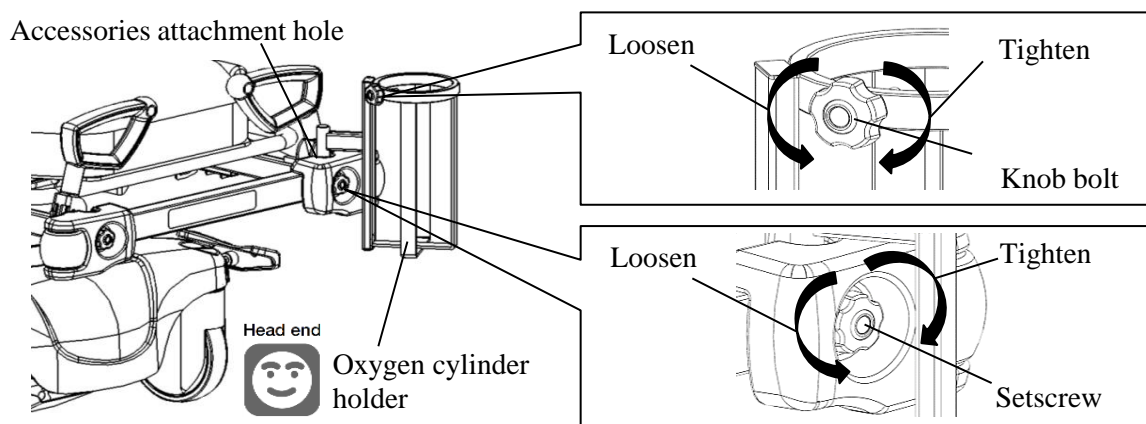
WARNING

- Attach the oxygen cylinder holder to one of the four accessories attachment holes. If it is attached to a hole other than the accessories attachment holes, there is a risk of an injury by the oxygen cylinder holder falling, or a risk of malfunction of the oxygen cylinder holder or the stretcher.
- Make sure that the knob bolt is firmly tighten. There is a risk of insufficient oxygen supply.
- When using the oxygen cylinder, take care to prevent it from coming into contact with any objects in the vicinity of the stretcher. There is a risk of an injury by damage of a flow meter or an

■ The oxygen cylinder holder can be used by inserted into one of the accessories attachment holes.

■ Always use a 500L oxygen cylinder with a diameter between 9.5cm and 11.5cm.

- ① Insert the oxygen cylinder holder into one of the accessories attachment holes.
- ② Firmly tighten the setscrew at the selected accessories attachment hole.
- ③ Loosen the knob bolt on the oxygen cylinder holder, and then slowly insert the oxygen cylinder into the holder from the top.
- ④ Firmly tighten the knob bolt to fasten the oxygen cylinder.



● The description in this instruction manual may differ from the actual product due to specification changes. For any queries, please feel free to contact your distributor.

8 SUITABLE PRODUCTS

3. IV Pole (KC-56A/KC-56B/EC-562)

This IV pole is designed to be attached to the medical device when giving an intravenous drip to a patient.

WARNING

- Do not move the stretcher with holding the IV pole. The IV pole may break, resulting in an injury.
- Do not use the IV pole as a support to stand up. The IV pole may come off or break, causing an injury due to falling down.
- When using the IV pole, do not put a hand or arm between the mattress base or the transport handle and the IV pole. The hand or arm may get caught and get injured.
- Each hook's load capacity is 1 kg. Do not hang an article exceeding the load capacity because it may damage the hook, resulting in an injury.
- Length adjustment of the sliding pipe should be kept within 70cm. If the sliding pipe is pulled out too much, it may come off, resulting in an injury or damage.

■ The IV pole is used for hanging intravenous drip bags and similar items.

① Insert the IV pole into one of the accessories attachment holes, and then tighten the setscrew to fasten the IV pole.

② Loosen the knob bolt on the IV pole, and then move the slide pipe up and down to adjust the length. When the pipe has been adjusted to the desired length, tighten the knob bolt to fasten the pipe.

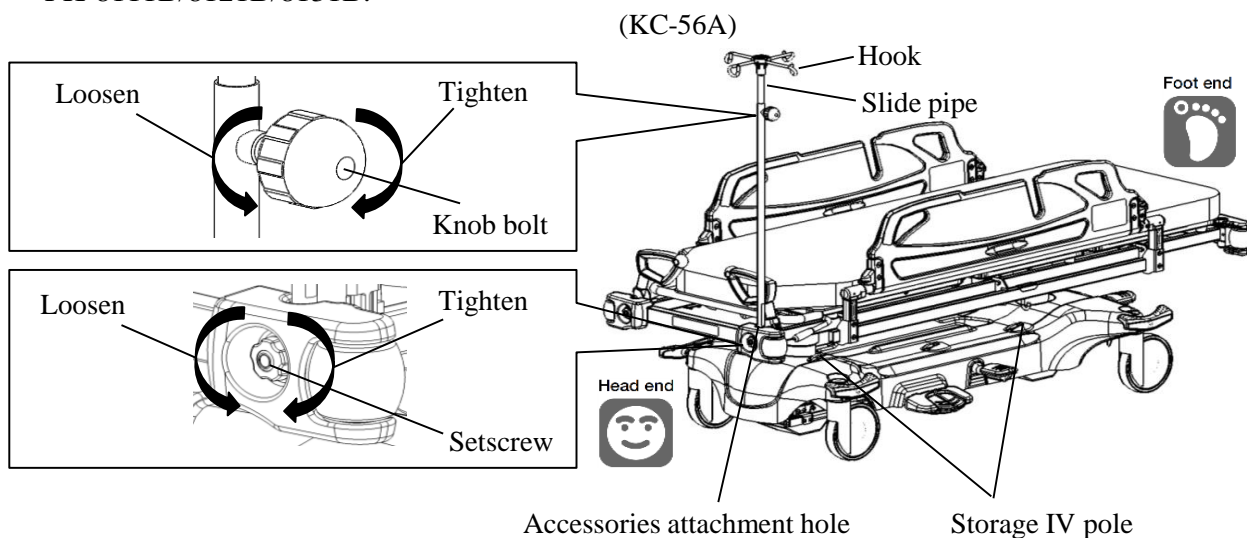
③ Hang the intravenous bags or similar items on the IV pole.



NOTE!

● The IV pole can be stored on the groove in the base cover.

※ The IV pole can be attached in the accessories attachment holes of side-rail, In case of PK-8111B/8121B/8131B.



NOTE!

● The description in this instruction manual may differ from the actual product due to specification changes. For any queries, please feel free to contact your distributor.

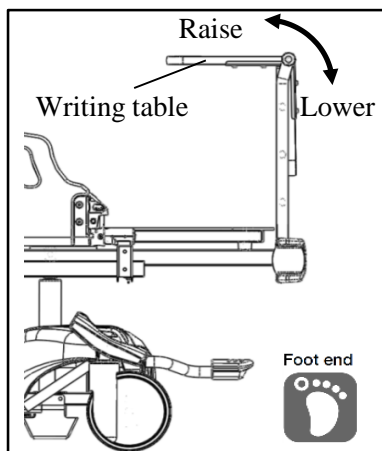
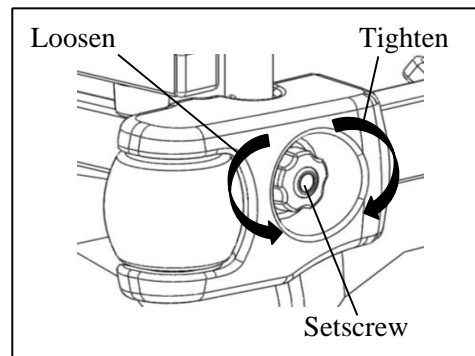
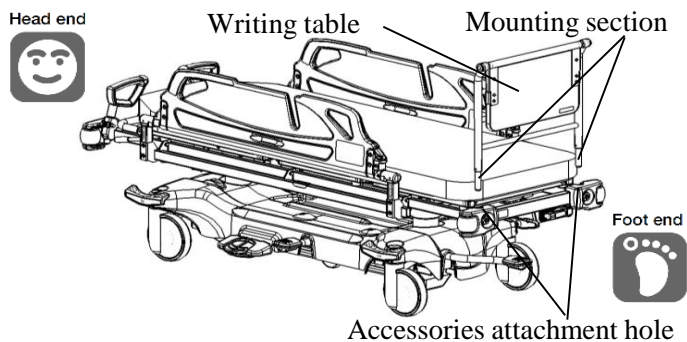
4. Footboard with writing table (KC-860)

This writing table is designed to be attached to the PK-8000 series to write on the table.

⚠ CAUTION

- Remove any object on the table to prevent the object from falling off when moving the stretcher.
- Fully insert the attachment ends of the footboard into the accessories attachment holes.
- Firmly tighten the clamping screws. Otherwise, you run the risk of injury should the footboard detach accidentally and over turn.
- Make sure that the footboard is mounted in the proper orientation. If the orientation is reversed, there is a risk of the table striking the patient and causing injury when it is lowered.
- The maximum load capacity of the table is 20kg. Overloading may damage or deform the table.
- Do not place objects that are hotter than 80°C on the table as this may cause damage or discoloration.
- Immediately wipe off any water or chemicals spills on the table. Failure to do so may result in damage to the table.
- When lowering the table, take care to prevent the fingers from becoming caught in the gap between the table and the frame.

■ The footboard with writing table attached can be mounted and removed as required. It should be removed for lower-limb treatment.



[Mounting the footboard]

- ① With the writing table in the lowered position and facing outward, insert the mounting sections into the accessories attachment holes at the foot end.
- ② Turn the setscrews to fasten the footboard in place.
- ③ To use the writing table, rotate it upward to the horizontal position.

[Remove the footboard]













- ① If the writing table has been used, slowly rotate it downward to its original position.
- ② Loosen the setscrews, and then use both hands to hold the footboard at both sides and lift it out of the attachment holes.

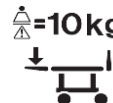

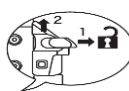


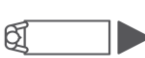




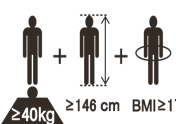




● The description in this instruction manual may differ from the actual product due to specification changes. For any queries, please feel free to contact your distributor.

9 PRODUCT SYMBOL DEFINITIONS






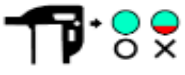




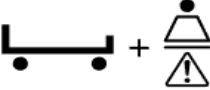

■ The symbols below are used for the product.





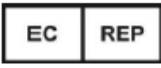







Symbol	Description
	• CE mark
	• Prohibited
	• Warning
	• Do not operate the stretcher while the patient's body is sticking out of the gap
	• Take care to prevent body parts from getting caught in the moving part on the stretcher
	• Do not use force to push the stretcher when the casters are locked
	• Do not place the stretcher on the inclination
	• Do not get on the mattress base when it is raised
	• Do not use the transfer board as a support to stand up
	• Do not get on the transfer board
	• Do not lean on the transfer board
	• Do not lock the transfer board in the horizontal level position when transferring a patient

Symbol	Description
	• Do not place an object weighing 10 kg or more on the transfer board
	• The safety lock is locked
	• The safety lock is released
	• The casters are locked
	• The casters are unlocked
	• The center wheel is ON (Steering position)
	• The stretcher height is lowered.
	• The head side height of the stretcher is lowered.
	• The foot side height of the stretcher is lowered.
	• The stretcher height is raised.
	• The medical bed for adults ≥40kg ≥146 cm BMI≥17
	• Do not place an object weighing 15 kg or more on the base cover
	• Do not hang an object weighing 5 kg or more on the urine bag hook

9 PRODUCT SYMBOL DEFINITIONS

■ The symbols below are used for the product.

Symbol	Description
	• Do not transport a patient with the transfer board locked in the horizontal level position
	• When transporting a patient, be sure to fasten the restraint belts
	• Operate the collapsible bed side rail slowly
	• Pay attention not to allow the patient's hands to get caught when getting on or off the bed
	• Pay attention not to allow the hands to get caught around the locking parts of the collapsible bed side rail
	• Use the bed after checking that the collapsible bed side rail is locked.
	• Collapsible side-rail locking operation procedure
	• Safe working load
	• Maximum patient weight
	• See the instruction manual
	• Total weight including load capacity
	• Medical device (This product is a medical device or an accessory for medical device in Europe, and may be such a device in some countries and regions depending on their regulations. An accessory for medical device is required to be labeled as "Medical Device" under medical device regulations in Europe).

Symbol	Description
	• Do not get a tube caught
	• Do not sit down on the end of the stretcher.
	• The angle indicator to get a rough indication of the back section base.
	• Indoor use symbol
	• Authorised representative in the European community
	• Serial number
	• Model number
	• Lot number
	• Product weight
	• Country of manufacture *It may be called "Legal Manufacturer" or "Brand Owner" etc. *The symbol is not applicable in the country of origin.
	• Country of manufacture (made in Indonesia) • Manufacturing site *In the country of origin, the site acts as the manufacturer. • Date of manufacture (YYYY-MM-DD)
	• This a 2D code (GS1 Data Matrix) that encodes the UDI (Unique Device Identifier) required by the Unique Device Identification System designed to adequately identify device through distribution and use.

10 DAILY MAINTENANCE AND CLEANING

■ 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. Inspect for loose parts, the operation of moving parts on the stretcher, and the presence of damage regularly. When an irregularity has been noticed or when a detailed inspection is desired, contact your distributor.

	Operation details	Inspection items
Stretcher Unit	Height and inclination operations (p.23 and p.24)	Proper operation can be achieved.
		There must not be any strange noises or remarkable rattling.
		The operation must not be unusually difficult.
	Miscellaneous	There must not be oil leak from the gas spring or any other parts.
		There must not be any scratches and deformation at the mattress base, frame, or any other parts.
		There must not be any deformation, damage, or detachment of bumpers, resin parts, or elastic parts.
There must not be any peeling of labels, and the text must be legible.		
Mattress base	Back raising (p.21)	Proper operation can be achieved.
		There must not be any strange noises or remarkable rattling.
		The operation must not be unusually difficult.
	Knee raising (p.22)	Proper operation can be achieved.
		There must not be any strange noises or remarkable rattling.
		The operation must not be unusually difficult.
Miscellaneous	There must not be any deformation or crack of the mattress base.	
Casters ※Inspect the casters on the flat floor.	Traveling	There must not be any strange noises when the bed is traveling.
		There must not be any strange vibrations when the bed is traveling.
	Caster locking operation (p.25)	Proper operation can be achieved.
		The operation must not be unusually difficult.
		The bed must not move when the casters are locked.
	Center wheel operation (p.26)	The bed must move smoothly when the lock is released.
		The center wheel is on the floor when in steering position.
		The center wheel is not on the floor when not in steering position.
Transfer board/ Collapsible side-rail	Transfer board/Collapsible side-rail operation (p. 28 to p.31)	Proper operation can be achieved.
		There must not be any strange noises or remarkable rattling.
		The operation must not be unusually difficult.
	Safety locking/Double locking operation (p.28 to p.31)	Proper operation can be achieved.

〈Lubrication (if there is abnormal noise)〉

● Lubrication is needed if there is abnormal noise. Please feel free to contact your distributor to be lubricated.



NOTE!

● The water adhesion to the stretcher or the mattress, or moisture may cause corrosion, abnormal noise or contamination. If water adhere to the stretcher or the mattress, wipe off immediately.

〈Stretcher unit〉

● To clean the stretcher, use a cloth that has been soaked in diluted detergent and wrung out well, then wipe off any residual detergent with a cloth soaked in water and wrung out well. Finally, use a dry cloth to wipe the stretcher to ensure it is dry.

● To wash the stretcher by water, make the stretcher horizontal level position and lower the stretcher to lowest position, then lower the transfer board. Pour water the stretcher to wash out stains. Finally, use a dry cloth to wipe the stretcher to ensure it is dry.

● To disinfect the stretcher, always dilute detergents used as specified below and follow the instructions described in the instruction manual for 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% - 1.00% sodium hypochlorite (e.g. Milton)

● When changing the patients who use the stretcher, it is recommended to disinfect the stretcher.

! CAUTION

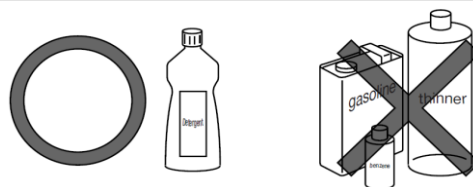
● Do not use volatile cleaning fluids (such as paint thinner, benzene or gasoline) and cresol. Discoloration or deterioration could result.

● Do not use disinfectant other than specified. There is a risk of damage or transformation.

● After wrung out the stretcher with detergent, be sure to wipe any residual detergent with a cloth soaked in water and wrung out well. Otherwise, there is a risk of damage of plastic parts.

● When washing the stretcher with water, do not pour water from under the base cover. There is a risk of malfunction.

● Do not wash the stretcher by a bed washer or high-pressure water. There is a risk of malfunction.



NOTE!

● The product should not be cleaned with an ozone sterilizer or autoclave apparatus.

〈Mattress〉

CAUTION

- Do not wash the padding. There is a risk of the padding degradation.
- Do not use a mattress washer, an ozone sterilizer or autoclave apparatus. There is a risk of damage transformation, or degradation.
- Do not leave dirt as blood, urine, sudor or sebum. Clean frequently dirt with neutral detergent or soap. If left untreated, the surface material may degrade, or smell or stain may be left.
 - The smell that is left during use may be neutralized with mouthwash.
 - If the mattress is stained, wipe off thoroughly with oxydol (3% hydrogen peroxide).
 - Use thrombolytic agent, if it is difficult to clean blood. In that case, try using it on the end of the mattress firstly, because there is a risk of discoloration or transformation.
- Do not use volatile cleaning fluids (such as paint thinner, benzene or gasoline) and cresol. Discoloration or deterioration could result.
- Do not use disinfectant other than specified. There is a risk of damage or transformation.

■ When the mattress get dirty or the persons who use the mattress change, be sure to clean and disinfect both surfaces of the mattress in accordance with the procedure specified in steps ① to ④ below. At this time, take care not to bend the mattress.

- ① Remove any soiling (blood, excreta, etc).
 - ② Wipe the mattress by a cloth that has been soaked in commercially available soap or neutral detergent diluted with water, and wrung out well.
 - ③ Disinfect the mattress by using disinfectant.
0.1%-0.5% sodium hypochlorite (e.g. Purelox)
For other specified disinfectants, contact Paramount Bed or your distributor.
 - ④ Leave the mattress to dry out naturally on the stretcher or in another location. However, do not dry in the sun.
- Clean and disinfect the mattress regularly.
 - Do not wash the mattress.
 - Take care not to soak the padding.

PROHIBITED

- Do not unzip the fastener and do not remove the cover when cleaning and disinfecting the mattress. Moreover, do not unzip the fastener while the mattress is in use. The fastener is provided to enable the cover to be repaired or replaced if it is damaged.



- The mattress should not be cleaned by an ozone sterilizer or autoclave apparatus.

■ Problems may not always indicate faults. Check the following once again before requesting repair.

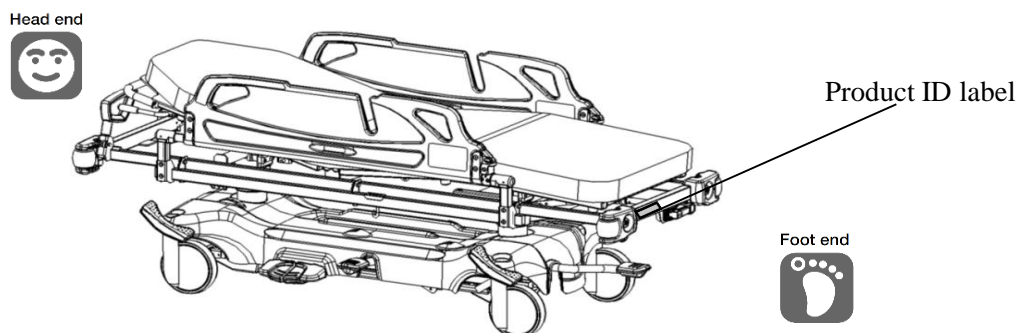
■ If the problem persists after taking corrective actions, stop using the stretcher immediately, and contact your distributor for repair.

■ Stretcher damaged in earthquakes, fires, floods or other incidents must be inspected and repaired by your distributor. Otherwise, there is a risk of an injury due to malfunctioning caused by deformation of the stretcher.

Problem	Check	Corrective action	Reference page
The handle cannot be operated.	The handle may have been operated beyond the highest or lowest position.	Turn the handle in the direction opposite to the direction the handle was turned excessively.	22
When the knee section is laid flat, the leg section does not become flat.	Check if the leg section base stay is inserted at position (A), the normal position for the stay adjustment fitting.	Lift the leg section base slightly, and then move the leg section base stay adjustment fitting to position (A).	20
The stretcher cannot be positioned correctly.	Check if there are any obstacles impeding the movement.	Remove any obstacles.	-
The stretcher cannot be moved.	Check if the casters are locked.	Unlock the casters.	25
The stretcher does not move in the intended direction.	Check if the center wheel is ON.	Switch OFF the center wheel.	26
The transfer board/Side-rail cannot be lowered.	Check if the safety lock/dubble lock is ON.	Release the safety lock/dubble lock.	28 to 31
The transfer board rattles.	Check if the stopper receptacles is worn.	Contact your distributor for repair.	28
The height cannot be adjusted.	Check if there is an obstacles under or behind the stretcher.	Remove the obstacles or anything hindering the height adjustment.	-
There is abnormal noise during operation.	Check if abnormal noise generate from the oil cylinder.	Raise the stretcher to highest position, then depress Up pedal a few times.	23
	Check if abnormal noise generate from parts other than the oil cylinder.	Lubricate the part that the noise generate, then contact your distributor for repair.	-

● When requesting repairs or contacting your distributor, please provide the number on the product ID label.

■ Product ID label location



12 LONG-TERM STORAGE AND DISPOSAL

Long-term storage

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

1. Lay the back section base flat.
✕ If you use PK-8021B/8121B, lay the knee-section base flat too.
2. Lower the stretcher to the lowest position.
3. Do not place objects other than mattress on the stretcher.
4. Do not place any objects on the mattress.
5. Do not place location that tend to be exposed to high temperatures, high humidity, low temperatures, dry or dusty conditions.
Store at a temperature between -10°C and 50°C, humidity between 30%RH and 90%RH, and atmospheric pressure between 700hPa and 1060hPa.
6. Store the stretcher horizontally; do not stand it upright against wall.



● Inspect the product regularly at least once a year, even if it is during storage.

Disposal

Dispose of the product according to the local rules and regulations.

13 SPECIFICATIONS

Product Name		Emergency Stretcher		
Model No.		PK-8011B	PK-8021B	PK-8031B
Siderail type		Transfer board		
Operation procedure	Back raising	Linkage mechanism using a gas spring		
	Knee raising	-	Linkage mechanism using a manual actuator	-
	Height adjustment	Telescopic mechanism using hydraulic cylinders		
	X-ray imaging	C-arm		X-ray cassette
	Transport handle	Urethane grip		
Dimensions	Total length	2,110mm		
	Total width	760mm		
	Total height (When the siderail is raised.)	880[±15] to 1,210[±15]mm		890[±15] to 1,220[±15]mm
	Mattress base length	1,910mm		
	Mattress base width	640mm		
	Mattress base height(*1)	560[±15] to 890[±15]mm		570[±15] to 900[±15]mm
	Casters	200mm dia. single-wheel casters with Center wheel system		
Product weight		105kg	108kg	114kg
Material	Mattress base	X-ray transparent plastic panel		
	Main frame	Made of steel, powder coating (part is resin mold item)		
	Siderail	Polypropylene		
	Base cover	Polypropylene		
User's maximum weight		174kg		
Safe working load(*2)		250kg		
Back section base inclination angle		0°to 90°[±10] ⁰		
Knee section base inclination angle		-	0°to 30°[±3] ⁰	-
Height adjustment range		330mm		
Inclination angle		-18°to 18°[±2] ⁰		
Mattress	Name	Urethane foam mattress		
	Dimensions	Width 660mm × Length 1,910mm × Thickness 80mm		
	Surface material	Vinyl leather		
	Core material	Urethane foam		
Service life		8 years (based on Paramount bed data), excluding consumable item such as casters		

*1) The mattress base height indicates the height from the floor to the mattress base surface.

*2) Safe working load: Maximum load with which the stretcher can be operated. (The total load of user's weight and incidental items including options.)

Product Name		Emergency Stretcher		
Model No.		PK-8012B	PK-8022B	PK-8032B
Siderail type		Transfer board		
Operation procedure	Back raising	Linkage mechanism using a gas spring		
	Knee raising	-	Linkage mechanism using a manual actuator	-
	Height adjustment	Telescopic mechanism using hydraulic cylinders		
	X-ray imaging	C-arm		X-ray cassette
	Transport handle	Steel grip		
Dimensions	Total length	2,110mm		
	Total width	760mm		
	Total height (When the siderail is raised.)	880[±15] to 1,210[±15]mm		890[±15] to 1,220[±15]mm
	Mattress base length	1,910mm		
	Mattress base width	640mm		
	Mattress base height(*1)	560[±15] to 890[±15]mm		570[±15] to 900[±15]mm
	Casters	200mm dia. single-wheel casters with Center wheel system		
Product weight		103kg	106kg	112kg
Material	Mattress base	X-ray transparent plastic panel		
	Main frame	Made of steel, powder coating (part is resin mold item)		
	Siderail	Polypropylene		
	Base cover	Polypropylene		
User's maximum weight		174kg		
Safe working load(*2)		250kg		
Back section base inclination angle		0°to 90°[±10] ⁰		
Knee section base inclination angle		-	0°to 30°[±3] ⁰	-
Height adjustment range		330mm		
Inclination angle		-18°to 18°[±2] ⁰		
Mattress	Name	Urethane foam mattress		
	Dimensions	Width 660mm × Length 1,910mm × Thickness 80mm		
	Surface material	Vinyl leather		
	Core material	Urethane foam		
Service life		8 years (based on Paramount bed data), excluding consumable item such as casters		

*1) The mattress base height indicates the height from the floor to the mattress base surface.

*2) Safe working load: Maximum load with which the stretcher can be operated. (The total load of user's weight and incidental items including options.)

13 SPECIFICATIONS

Product Name		Emergency Stretcher		
Model No.		PK-8111B	PK-8121B	PK-8131B
Siderail type		Collapsible side-rail		
Operation procedure	Back raising	Linkage mechanism using a gas spring		
	Knee raising	-	Linkage mechanism using a manual actuator	-
	Height adjustment	Telescopic mechanism using hydraulic cylinders		
	X-ray imaging	C-arm		X-ray cassette
	Transport handle	Urethane grip		
Dimensions	Total length	2,110mm		
	Total width	760mm		
	Total height (When the siderail is raised.)	930[±15] to 1,260[±15]mm		940[±15] to 1,270[±15]mm
	Mattress base length	1,910mm		
	Mattress base width	640mm		
	Mattress base height(*1)	560[±15] to 890[±15]mm		570[±15] to 900[±15]mm
	Casters	200mm dia. single-wheel casters with Center wheel system		
Product weight		114kg	117kg	123kg
Material	Mattress base	X-ray transparent plastic panel		
	Main frame	Made of steel, powder coating (part is resin mold item)		
	Siderail	Aluminum, steel (chrome plating)		
	Base cover	Polypropylene		
User's maximum weight		174kg		
Safe working load(*2)		250kg		
Back section base inclination angle		0°to 90°[±10] ⁰		
Knee section base inclination angle		-	0°to 30°[±3] ⁰	-
Height adjustment range		330mm		
Inclination angle		-18°to 18°[±2] ⁰		
Mattress	Name	Urethane foam mattress		
	Dimensions	Width 660mm × Length 1,910mm × Thickness 80mm		
	Surface material	Vinyl leather		
	Core material	Urethane foam		
Service life		8 years (based on Paramount bed data), excluding consumable item such as casters		

*1) The mattress base height indicates the height from the floor to the mattress base surface.

*2) Safe working load: Maximum load with which the stretcher can be operated. (The total load of user's weight and incidental items including options.)

■ **Essential performance**

Function to support and transfer body of a patient.

■ **Frequently used functions**

Caster lock/unlock, transferring, change of transfer board position.

■ **Classification and Standards**

The emergency stretcher described in this instruction manual is designed and manufactured according to the following equipment classification and standards.

- Classification as Medical Device in Europe : Class 1
- Safety standards applied : IEC 60601-1:2005+A1:2012
: EN60601-1:2006+A12:2014

Environmental conditions	Range	
	When transported or stored	When in use
Temperature	-10 to 50 ⁰ C	-10 to 40 ⁰ C
Humidity	30 to 90%RH	30 to 75%RH
Air pressure	700 to 1,060hPa	700 to 1,060hPa

Patient target group	Supported age range	13 years and older *Do not use the stretcher for children (aged 12 or under) or patient weighing more than 174kg.
	Maximum user weight	174kg
Intended users		Health care workers, Clinical engineer, and Maintenance staff
Clinical benefit		Patient comfort Quality patient care and efficient care provision

14 AFTER-SALES SERVICE

1. When requesting repairs

First check the items described in “11. TROUBLESHOOTING” (p. 50) in the instruction manual. If the problem persists, contact your distributor.

■ Details necessary when requesting repair

- Product name, model number
- Product ID label number (see p. 50)
- Date of purchase
- Details of fault or problem (please provide as much detail as possible)
- Your name, organization, address, and phone number

■ Consumable parts

Mattress, casters, the rubber of operation pedals, hydraulic cylinders and gas spring 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

For any queries, please feel free to contact your distributor or to the following address.

Website: <https://www.paramount.co.jp/english/>



Location in Japan (Manufacturer)	Location in Indonesia (Manufacturing premises)
 Paramount Bed Co., Ltd. 14-5, 2-Chome, Higashisuna, Koto-ku, Tokyo, 136-8670, Japan Tel : +81-(0)3-3648-2961 FAX : +81-(0)3-3648-5781	 PT. Paramount Bed Indonesia MM2100 Industrial Town, Block M-1-1 Gandamekar, Cikarang Barat, BEKASI 17530 JAWA BARAT, INDONESIA Tel : +62-(0)21-8981051 FAX : +62-(0)21-89981611



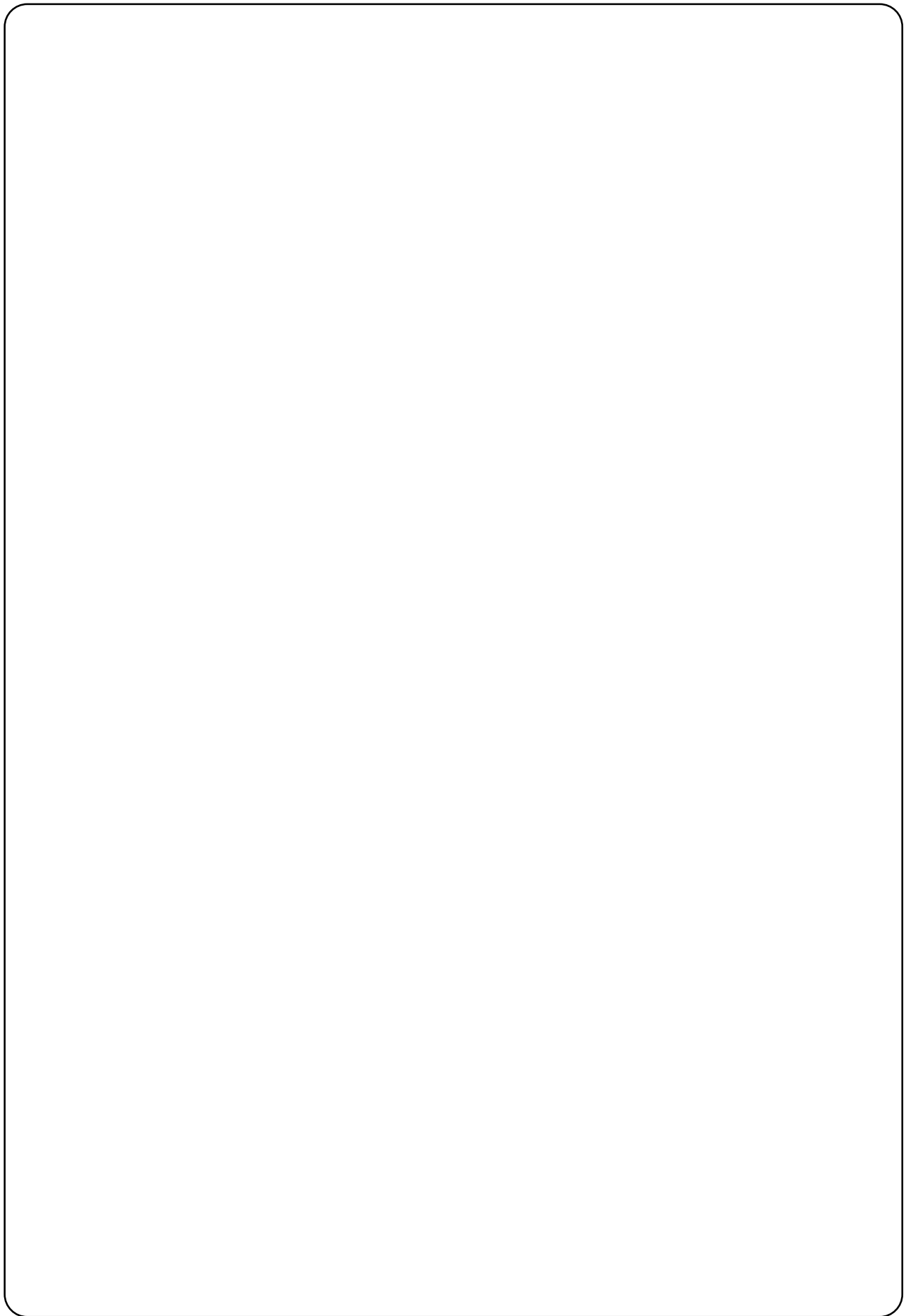
EMERGO EUROPE

Westervoortsedijk 60,
6827 AT Arnhem
The Netherlands



NOTES

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