



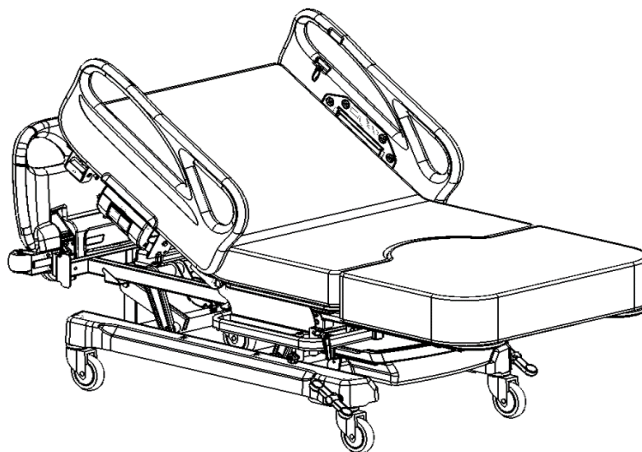
INSTRUCTION MANUAL

Celenus™

7A10626000A6

PD-200 Series

Electric Delivery Bed



Thank you for purchasing **the PD-200 Electric Delivery Bed**. This instruction manual describes precautions and how to safely use and operate the bed.

- Before using this bed, 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 bed 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 bed 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 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.
- The actual product purchased may differ from detailed descriptions given in this instruction manual due to product improvements.
- Values in the specification such as working range, dimensions, angles and mass are subject to normal manufacturing tolerances. Besides some exemptions, display purpose words such as "approximately", "about" etc. are omitted.
- For convenience, the term "patient" indicates "pregnant woman" in this instruction manual.
- For any queries, please feel free to contact your dealer directly.

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1 INTENDED USE / PART NAMES

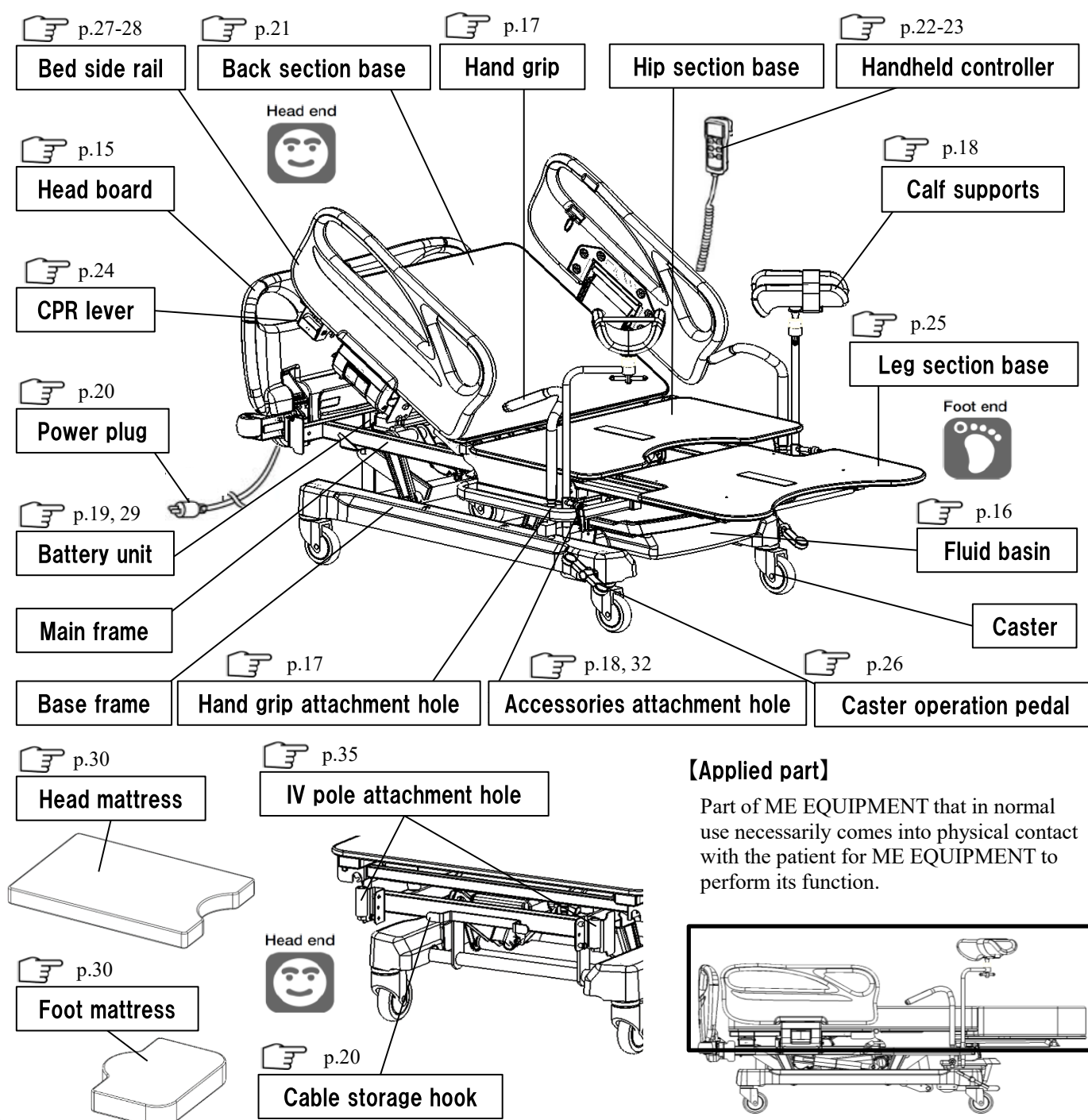
1. Intended Use

■ This bed is intended to be used as a birthing bed for women who are ready to deliver and not intended for use as a general hospital bed.

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

2. Part Names



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



2 SAFETY PRECAUTIONS

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

● The safety precautions described here are intended to ensure safe use of the product and prevent personal injury and property damage. Precautions are classified as "WARNING" 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.**

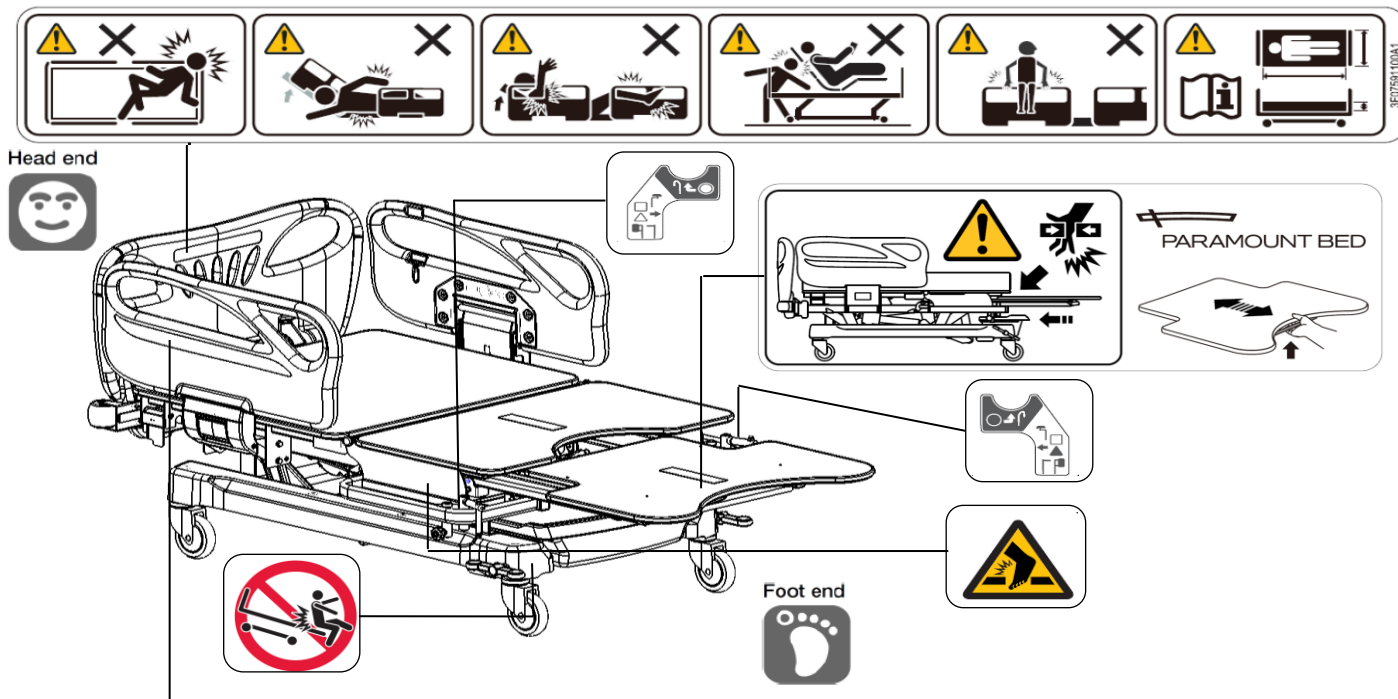
 WARNING	Indicates actions that may result in death or serious injury (broken bones, pressure or paralysis) if the indication is ignored.
 CAUTION	Indicates actions that may result in light personal injury (bruises, wounds, or cuts) or property damage if the indication is ignored.
Among items described in SAFETY PRECAUTIONS, 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 bed are affixed as pictured in the figure.
- If the safety label is removed or defaced, replace it with a new one obtained from your dealer.



WARNING

■ Be careful not to allow any part of the body (especially the head or neck) to enter the gap between the side-rail and board or the mattress base (especially when raised).



● When the head or neck enters the gap, the patient and/or user might not be able to withdraw, and there is a risk of injury.

■ Be careful not to allow any part of the body to enter the gap in the side-rail and the board.



● If the bed is operated with a body part placed in the gap, the part may get caught, resulting in injury.

● When the head or neck enters the gap, the patient and/or user might not be able to withdraw, and there is a risk of injury.

■ Be careful not to allow any part of the body (especially the head or neck) to enter the gap between the side-rail and the mattress base or the mattress.

● A patient and or/user may fall off the bed through the gap between a board and side-rail and get injured.

● If a patient bends forward over a side rail, they may fall off the bed and get injured.

■ When performing the height adjustment or inclination angle adjustment with the side rail lowered, do not place legs under the side-rail.

● There is a risk that the legs may get caught, resulting in injury.

■ Do not place hands (fingers) or legs between the bed frame and the mattress base during electrical operation.

● The body part may get caught in the gap between the lowered mattress base and the bed frame or the board, resulting in injury.

■ Check the patient's condition when adjusting the base angle or bed height.

● If the patient on the bed moves when the base angle or bed height is adjusted, the patient may fall off the bed or get caught in the gap between the bed and the side-rail or the board, resulting in injury.

■ Do not crawl or place your head or hands/legs under the bed.



● There is a risk of getting caught between the moving part on the bed and the frame or the side-rail, resulting in injury. Check to make sure that there are no people or objects around the bed before operating the bed.

2 SAFETY PRECAUTIONS

WARNING

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

● There is a risk that a part of the body may get caught, resulting in injury.

■ Take care to prevent a patient from falling off the bed even when side-rails are raised.

● A patient may fall off the bed through the gap between the side-rails, or a board and side-rail, resulting in injury.

● If a patient bends forward over a side-rail, they may fall off the bed, resulting in injury.

■ Do not adjust the side-rails from inside the bed.



● The side-rails may drop suddenly and there is a risk of the patient falling off the bed, resulting in injury.

■ When transporting a patient, raise the side-rails.

● There is a risk of the patient falling off the bed, resulting in injury.

■ Do not sit on the side-rails, the head board, or the foot board.



● A patient could fall off the bed, or the bed or side-rails could be damaged or deformed, resulting in injury.

■ When leaving the bed area or temporarily taking your eyes off the patient, check the mattress base angle, bed height, and the side-rail status.

● If a physician, nurse, or caregiver leaves the bed area or temporarily takes their eyes off the patient, flatten the mattress base angle and set the bed height at the lowest position according to the patient's condition because there is a slight chance that the patient could fall off the bed.

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

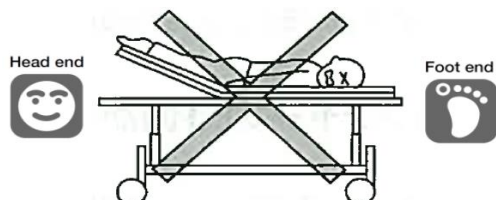
● If a child aged 12 or under, or someone deemed incapable of comprehending the operation (such as persons with dementia) operates the handheld controller by themselves, there is a risk of unexpected injury such as the body getting caught in the bed by mistake. If such persons can come into contact with the handheld controller, unplug the power plug in order to prevent accidents caused by incorrect operation.

■ Pay attention to prevent the patient from being compressed during back raising.

● Especially before birthing, if the back section base is raised excessively, the patient might be compressed, resulting in injury.

WARNING

■ Use the bed in the correct orientation.



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

■ 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.

■ Use the bed according to the patient's medical condition.

● The bed operations may adversely affect the medical conditions of patients with specific symptoms.

● Before the patient or a family member operates the bed, make sure that the physicians or nurses explain details given in the instruction manual and proper usage to suit the patient's medical condition.

■ Do not attach a restraint belt.

● Otherwise it may cause an injury or bed damage or deformation.

■ Do not stand on the bed.



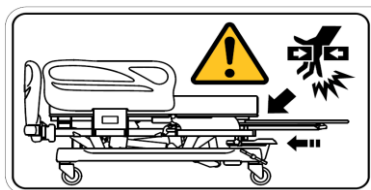
● There is a risk of injury caused by the person falling off the bed or falling down, or the bed could be damaged or deformed. Pay close attention to children.

■ Do not sit on the leg section base.



● The leg section base may get damaged or the bed may tip over, causing an injury.

■ Be careful not to allow fingers to enter the gap between the hip section base and the leg section base when operating the leg section base.



● There is a risk that fingers may get caught, resulting in injury.

■ Do not spill liquid on the bed.

● Do not spill liquid on the bed's electrical components, such as the motors and handheld controller. This could cause an electric shock due to a short circuit or product failure. If liquid is spilt accidentally on the bed, disconnect the power plug from the power outlet and contact your dealer.

2 SAFETY PRECAUTIONS

WARNING

■ Make sure that there is nothing in the IV Pole attachment holes, the hand grip attachment holes or the accessories attachment holes when mounting the calf supports, hand grips or optional items.

● If there are obstacles in the attachment holes, you cannot mount the hand grips, the calf supports or accessories items, and the patient may fall off the bed or get caught in the gap, resulting in injury.

■ Do not use a mobile phone or other wireless device in the vicinity of the bed.

● This could cause the bed to malfunction or affect other medical equipment.

■ Do not combine the bed with products other than the suitable products specified by Paramount Bed.

● For suitable products directly attached to the bed such as mattresses, use suitable products 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.

■ Keep the bed away from fire.

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

■ When moving the bed, watch your step.

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

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

● The bed may move when a patient gets into or out of the bed, resulting in an unexpected injury.

● When moving the bed, operate the caster operation pedal and unlock the casters.

■ Do not step on the caster operation pedal.

● There is a risk of injury due to falling or damage to the bed.

■ Do not trip over the power cable or cables of the handheld controller.

● The power plug or cables may get damaged and short circuit, resulting in electric shock or fire.

● There is a risk of injury caused by the patient falling down.

■ Do not run cables (such as the power cable) of the bed or other electrical appliances under the bed.

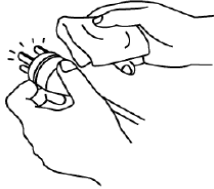
● The cables may get caught in casters or moving parts and become damaged and short circuit, resulting in electric shock or fire.

■ Do not apply excessive force to the power plug.

● There is a risk of electric shock or a fire due to a short circuit.

WARNING

- Do not allow dust to accumulate on the power plug pins.

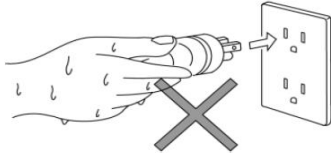


- Dust on the power plug can absorb moisture and conduct electricity, causing a short circuit and possibly resulting in electric shock or fire.
- Wipe away any dust accumulating on the surface of the power plug using a dry cloth.

- Always unplug the power plug before cleaning.

- There is a risk of injury due to accidental operation or electric shock due to a short circuit.

- Do not insert or remove the power plug with wet hands.



- There is a risk of electric shock or product failure due to a short circuit.

- Do not damage cables (such as the power cable).

- Damage to the cables may cause electric shock or fire due to a short circuit.

- Be careful not to allow cables to get caught in the moving parts of the bed.
- Be careful not to place heavy objects on the cables or apply excessive force to them.
- Do not run over cables with the bed.

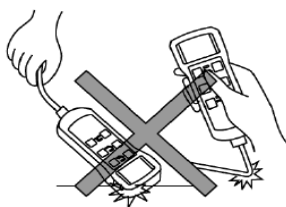
- Request repair (or replacement) of damaged cables.

- Do not bump or damage electrical parts such as the handheld controller.

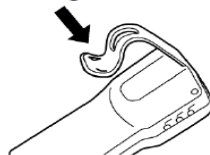
- The bed may malfunction, resulting in injury, and there is a risk of electric shock or fire due to a short circuit.

- This may cause operational failure.

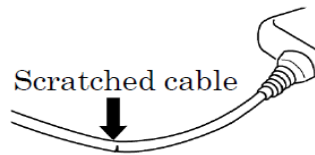
- Request repair (or replacement) of a damaged handheld controller.



Hook damage



Scratched cable



- When disconnecting the power plug, hold the power plug body to disconnect.

- When holding onto only the power cable and pulling it to disconnect the plug from the outlet, the cable could be damaged and there is a risk of electric shock or fire due to a short circuit.

2 SAFETY PRECAUTIONS

WARNING

- Always disconnect the power plug for the bed from the power outlet when using electronic medical equipment.
- Using the bed in conjunction with electronic medical equipment (e.g. microwave or ultrashortwave medical equipment) may cause operational failure or malfunction.
Check for safety considerations before using the bed in conjunction with other medical equipment.
- Do not repair or modify the product or its components.
- This may create unintended gaps or may cause abnormal operation, resulting in injury.
- Inspect the bed 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 bed, and the presence of damage regularly. There is a risk of unexpected injury.
- Beds damaged in accidents must be inspected and repaired before being reused.
- Beds damaged in earthquakes, fires, or floods or other incidents must be inspected and repaired by your dealer. Otherwise, there is a risk of electric shock or fire due to short circuit or current leakage from electrical parts, or injury due to malfunctioning caused by deformation of the bed.
- The bed should not be used by two or more persons.
- This bed 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 180kg. If a physician, nurse, or caregiver needs to get on the bed for a short time, confirm the following conditions before hand.
 - The total weight of the person to get on the bed must not exceed 220kg.
 - The mattress base has been lowered all the way.
- Do not apply more than the safe working load on the bed.
- The bed could be damaged, resulting in injury. The safe working load of this bed is 2150N (220kgf). The safe working load is the maximum load with which the bed can be operated and is the total load of the user's weight and incidental items including the mattress and suitable products.
- Do not use as a general hospital bed.
- This bed is not designed as a general hospital bed but designed for women who are ready to deliver. Using as a general hospital bed may cause unexpected injury.
- Do not place the bed on the inclination which angle is 5 degree or more.
- The bed may tip over, resulting in injury.

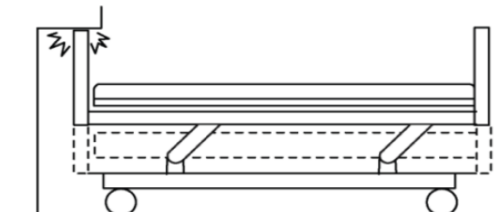
WARNING

- Do not use the mattress when the fastener is open.
- If liquid gets inside the mattress, the urethane foam may deteriorate.
- Do not place something cold (ex. ice pack or refrigerant) on the mattress directly.
- The urethane foam may deteriorate due to 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 bed.
- There is a risk that the solvents contained in the insecticide may damage, discolor, or dissolve casters or other resin parts of the bed. Check for damage caused by the insecticide because damaged or dissolved parts may cause unexpected injury.

2 SAFETY PRECAUTIONS

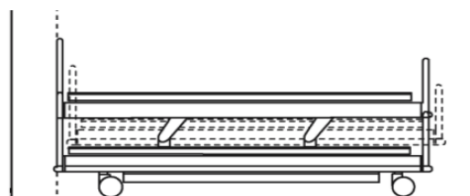
CAUTION

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



- The bed or wall may be damaged or deformed. Make sure that the bed does not hit the wall, beam, or power plug during height or inclination angle adjustments.

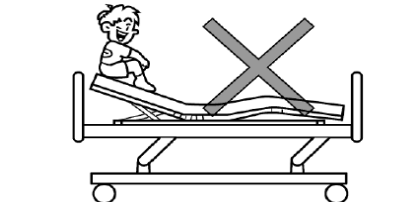
- When setting up the bed, make sure that there is at least 10 cm clearance from the wall.



Secure at least 10 cm clearance from the wall.

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

- Do not get on the mattress base when it is raised.

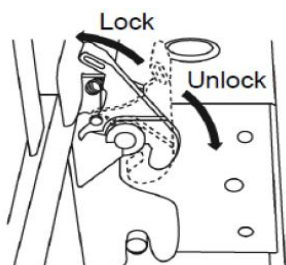


- Excessive force on the mattress base can cause damage or deformation.

- Check the surroundings before operating the bed.

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

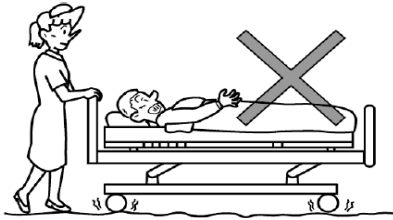
- Make sure the stoppers of the head board are in the lock position.



- If the board is not mounted properly, the board may suddenly disengage when a staff pushes (pulls) the board to move the bed or a patient grabs the board to support their body, resulting in injury should the patient lose balance and falls.

CAUTION

- Do not move the bed by holding on to the side-rails.
- Excessive force applied to the side-rails can cause damage or deformation.
- Avoid transporting over uneven floors.



- This may cause damage or deformation to the bed. If the bed must be moved on uneven floors, do it as slowly as possible.

- The handheld controller must be attached to the appropriate bed.
- If it is attached to an inappropriate bed, the bed could operate unexpectedly, resulting in injury or bed failure.
- Even if the bed is of the same series, the handheld controllers may be different due to specification changes. Before attaching the handheld controller to the bed, check that the part number and shape of the handheld controller are the same as those of the bed.

3 INSTALLATION

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

- Locations exposed to direct sunlight
- Locations near heat sources such as a stove or heater
- Locations which are heavily electrically charged such as near an MRI.
- Locations that have a high oxygen levels
- 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

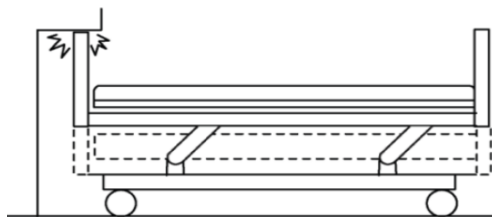
※ The optimum ambient conditions for the bed are as follows.

Temperature 5°C to 40°C / Humidity 20%RH to 90%RH / Atmospheric pressure 700hPa to 1060hPa.

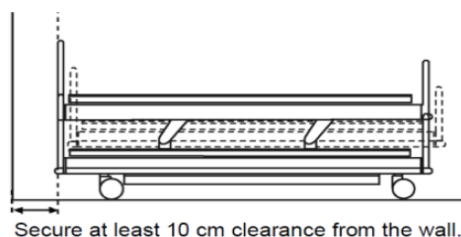
- Locations with large amount of dust, smoke, salt, sulfur, or corrosive substances
- Locations with poor ventilation
- Locations exposed to vibrations or shocks (including during transportation)
- Locations where the floor is not strong enough
- Locations where the floor is not level

CAUTION

- When performing height or inclination angle adjustments, pay attention not to hit the wall, beam, or power outlet on the wall. The bed or wall may be damaged or deformed.



- When setting up the bed, make sure that there is at least 10 cm clearance from the wall. The bed operations may damage objects located around the bed, or may cause the bed to be damaged or deformed.



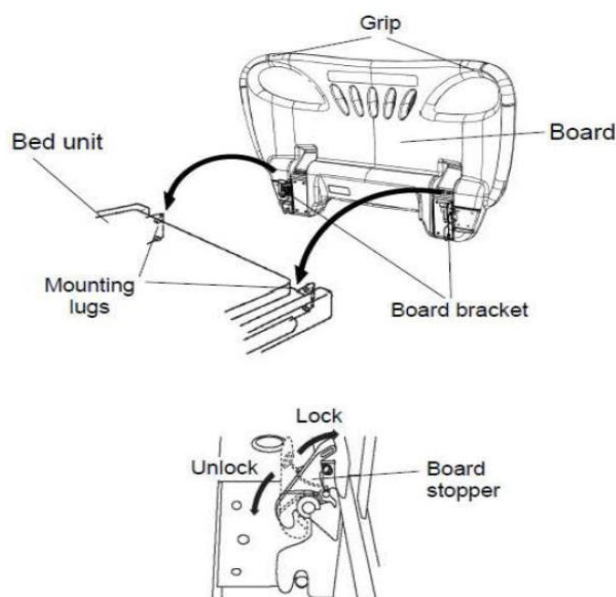
4 ASSEMBLING THE BED

1. Attaching / detaching the head board

CAUTION

- When attaching the head board, make sure that the stopper is in the lock position. Otherwise, the board may disengage when the bed is moved, causing injury due to toppling.
- Do not attach the board to a mounting lugs other than the board attachment mounting lugs. Attachment could become insufficient and the board could be rattled or come off, resulting in injury.
- When removing the board, do not forcefully lift it while the board is tilted. There is the risk of deformation of the board insertion parts.

■ The head board can be attached or detached.



[Attaching]

- ① Hold the grip of the head board, lift and mount it so that the board brackets engage with the mounting lugs on the bed. (The board stopper is automatically locked.)
- ② Lightly lift the board and make sure that it is locked.

[Detaching]

- ① Move the board stopper to the unlock position.
- ② Hold the grip of the board and detach it.

4 ASSEMBLING THE BED

2. Attaching / detaching the fluid basin

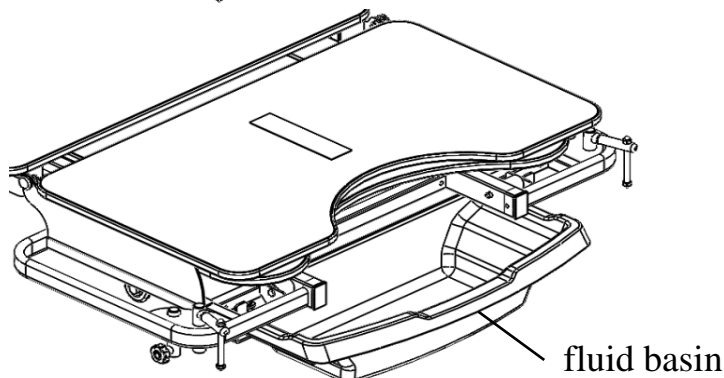
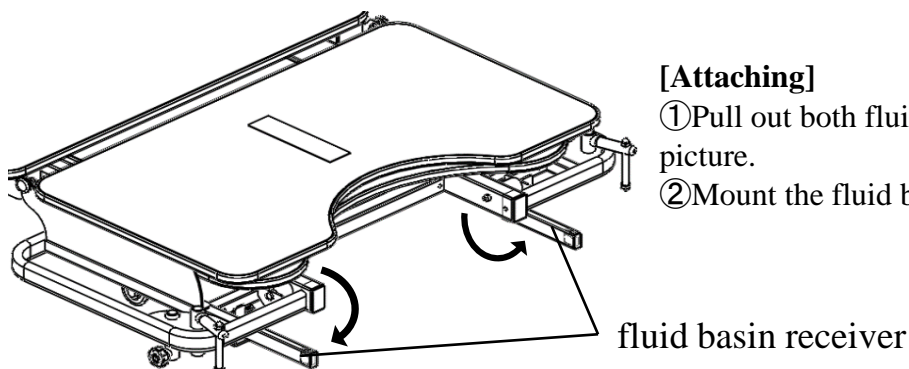
CAUTION

● Open the Fluid basin receiver before storing the Fluid basin. If it is stored incorrectly, the fluid receiver may be dropped or pinched, resulting in damage to the equipment or injury.

■ The fluid basin can be attached or detached.

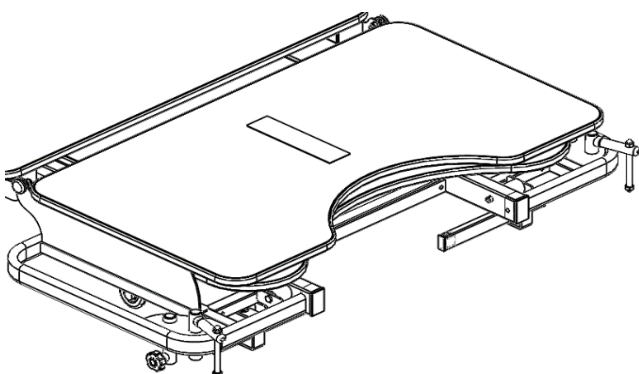
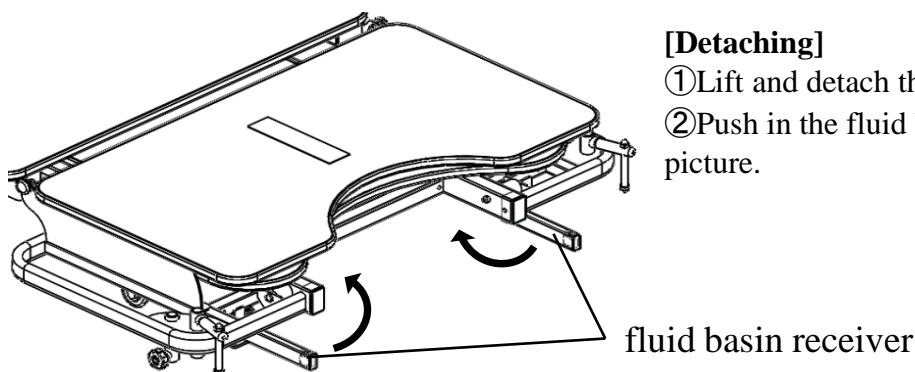
[Attaching]

- ① Pull out both fluid basin receivers as shown in the picture.
- ② Mount the fluid basin on the fluid basin receivers.



[Detaching]

- ① Lift and detach the fluid basin.
- ② Push in the fluid basin receivers as shown in the picture.

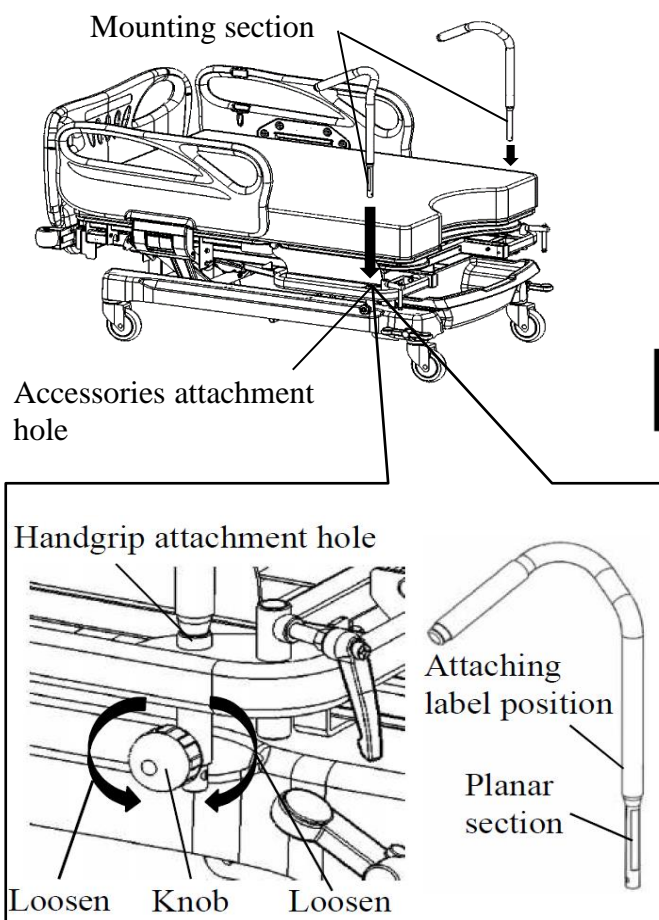


3. Attaching / detaching the hand grips

WARNING

● Be careful not to allow any part of the body to enter the gap between the hand grip and the mattress base, the side-rails or the optional items. When any part of the body enters the gap, the patient might not be able to withdraw, and there is a risk of injury. Detach the hand grips except when giving birth.

■ The hand grips can be used during delivery.



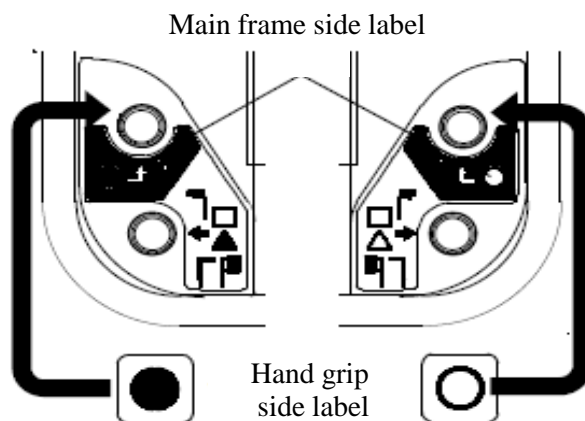
[Attaching]

- ① Direct outward the planar section of the mounting section of the hand grip, and insert the mounting section into the hand grip attachment hole as shown in the picture.
- ② Turn the knob to fasten the hand grip.
- ③ Lightly pull or rotate the hand grip and make sure that it is fastened.



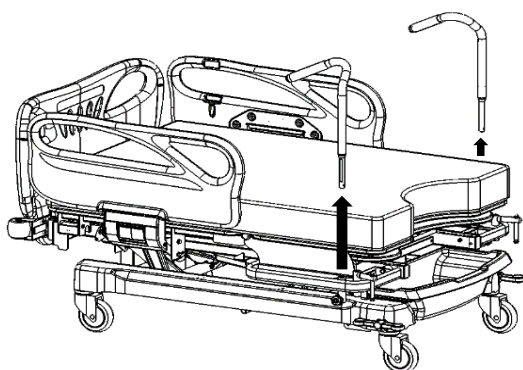
NOTE!

● The right hand grip and the left hand grip are different.
Be careful not to attach wrongly.



[Detaching]

- ① Turn the knob to loosen.
- ② Lift the hand grip as shown in the picture.



4 ASSEMBLING THE BED

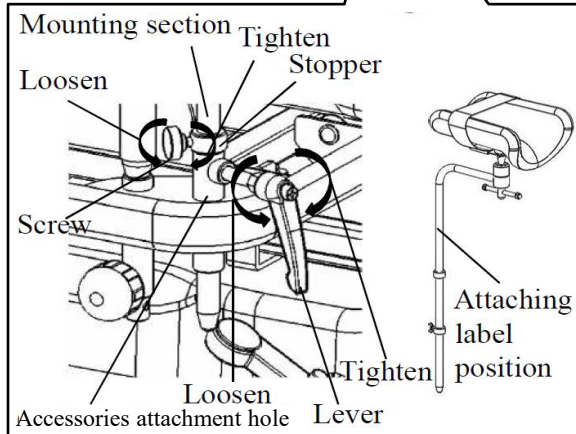
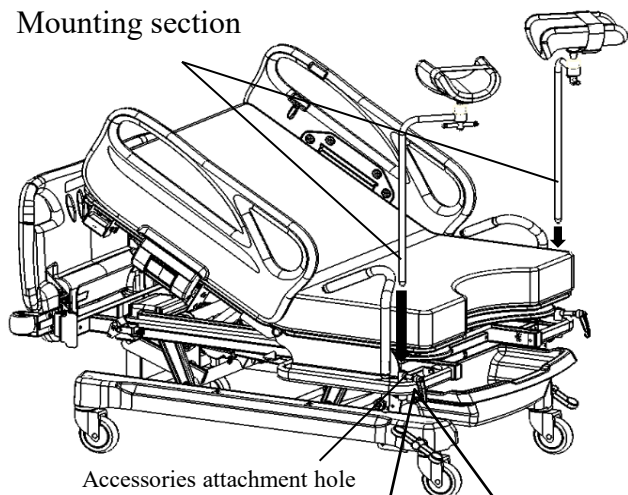
4.Attaching / detaching the calf supports

WARNING

● Fasten the lever when the calf supports are mounted in the accessories attachment holes. Otherwise, the calf supports may drop, causing an injury.

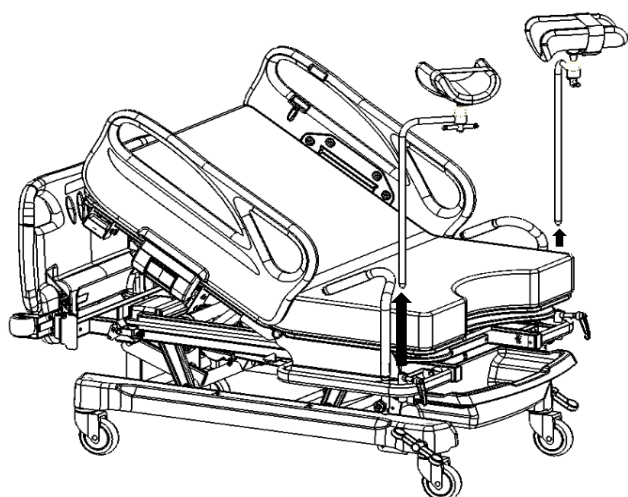
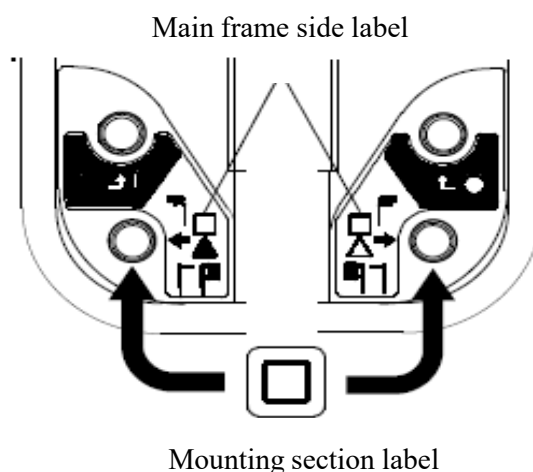
■ The calf supports can be used when examining the patient or giving birth.

Mounting section



[Attaching]

- ① Insert the mounting section into the accessories attachment hole as shown in the picture.
- ② Turn the lever to fasten the calf supports.
- ③ Lightly lift the calf supports and make sure that it is fastened.



[Detaching]

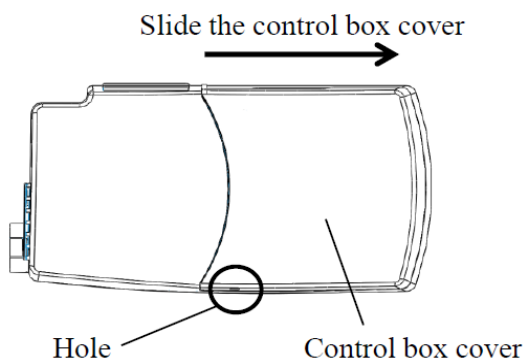
- ① Turn the lever to loosen.
- ② Lift the calf supports as shown in the picture.

5. Attaching the battery unit

WARNING

● When connecting the battery cable, unplug the power plug. There is a risk of injury due to accidental operation or electric shock due to a short circuit.

■ The battery cable must be connected to the control box in order to use the battery.

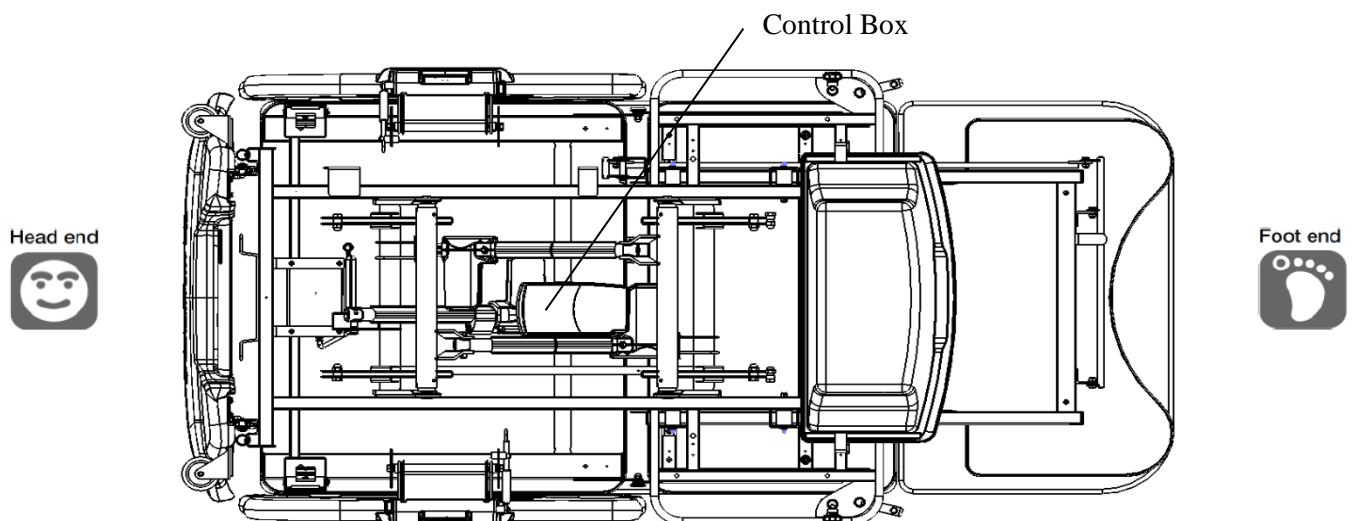
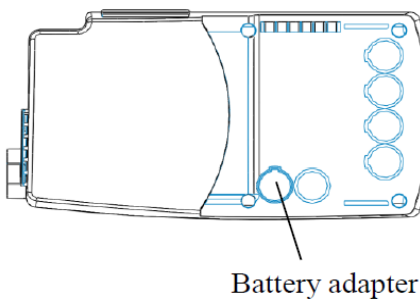


① Set minus driver in the hole at the side of the control box and slide the control box cover to open it.

② Connect the battery cable to the battery adapter of the control box.

③ Attach the control box cover.

<After opening the control box cover>

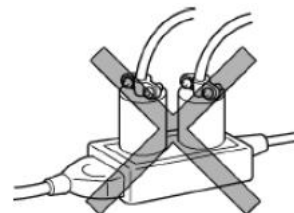


5 CONNECTING TO THE POWER SUPPLY

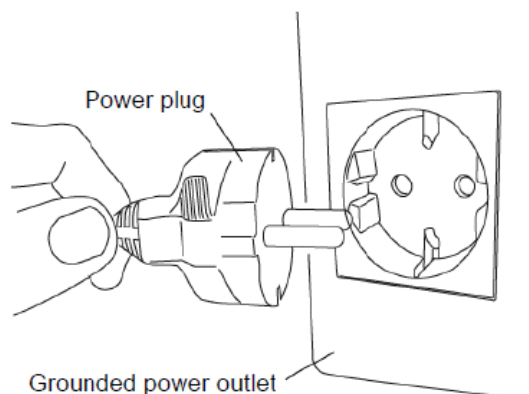
1. Power outlets

CAUTION

- Never connect more than one cable to a power outlet.

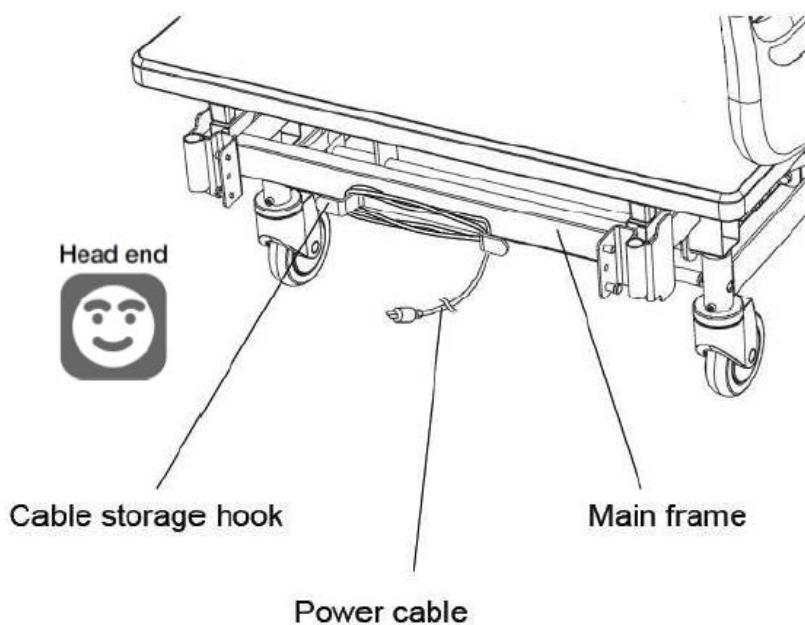


- Each Bed should be plugged into a separate, appropriately wired, single-phase 230VAC, 10A or greater grounded power outlet using the power plug.



2. Using the cable storage hook

- Wind the power cable onto the cable storage hook when moving the bed.



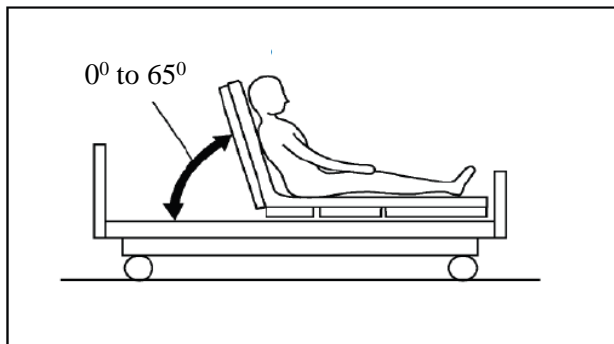
※View after detaching the head board

6 OPERATION OVERVIEW

CAUTION

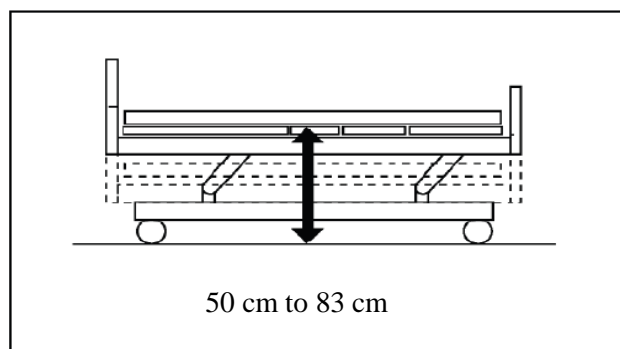
● Do not allow the patient to get on or off the bed while the bed is tilted. There is a risk of injury due to the patient falling down. Tilting the bed must only be performed under the observation of a doctor or nurse.

Back raising



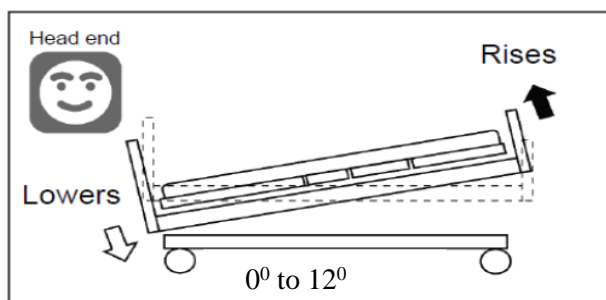
● The angle of the back section base can be adjusted electrically from an angle of 0° to 65°.

Height adjustment



● The height from the floor to the mattress base surface can be adjusted electrically from 50cm to 83cm.

Inclination (Trendelenburg)



● The head end of the bed can be lowered. The angle can be adjusted electrically up to 12°.

7 USING THE HANDHELD CONTROLLER

WARNING

● Do not allow the bed to be operated by a child aged 12 or under, or someone deemed incapable of comprehending the operation of the bed. If a child aged 12 or under, or someone deemed incapable of comprehending the operation (such as persons with dementia) operates the handheld controller by themselves, there is a risk of unexpected injury such as the body getting caught in the bed by mistake. If such person can come into contact with the handheld controller, unplug the power plug in order to prevent accidents caused by incorrect operation.

● The angle of the back section base, the bed height and the bed inclination angle can be smoothly adjusted with no increments by using the handheld controller.

Pressing the button adjusts the bed, and releasing the button stops adjustment, allowing you to adjust the bed to the desired position. Press the [↑] to raise the desired section and press [↓] button to lower the desired section.

Power indicator lamp

- Lamp will turn on when in normal electricity condition.
- Lamp will turn off if power plug or handheld controller plug loosed or if black out and disconnection

UP and DOWN buttons

- For adjustment of the angle of the back section base.

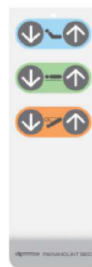
UP and DOWN buttons

- For adjustment of the bed height.

UP and DOWN buttons

- For adjustment of the bed inclination angle.
- This function only available in handheld controller for caregiver. Doesn't install in handheld controller for user.

For caregiver



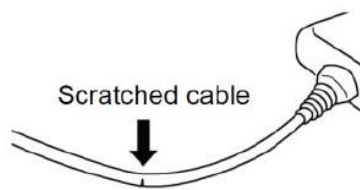
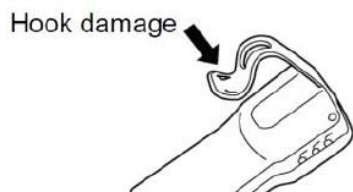
For user



● Pressing two or more buttons simultaneously stops adjustment. If you stop adjustment by pressing two or more buttons, remove your hands from all buttons and then perform adjustment again.

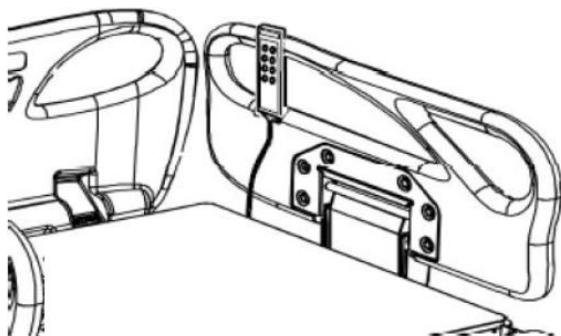
CAUTION

● Do not drop the handheld controller or pull the cable. The handheld controller may get damaged or deformed, causing it to operate incorrectly. Request repair (or replacement) of a damaged handheld controller.



● The handheld controller must be properly set in the storage position or hung on the side-rail with the buttons facing outwards using a hook. Otherwise, when operating the bed or side-rails, buttons on the handheld controller could be pushed and the bed could be moved accidentally, or the handheld controller could be damaged or deformed.

<Handheld controller storage position>



● Store the handheld controller in the handheld controller storage position inside the bed side-rail.

8 OPERATION PROCEDURES

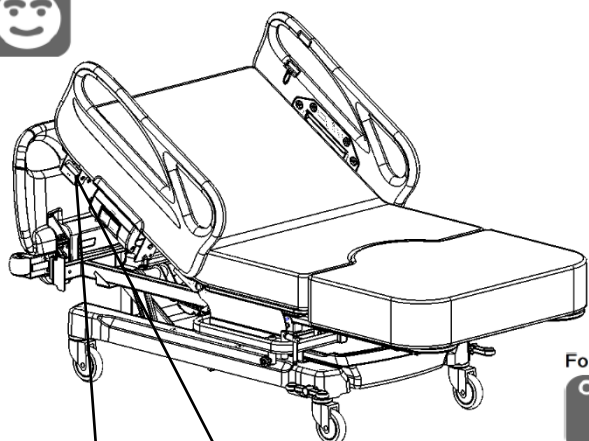
1. Using Emergency CPR (back-lowering) function

WARNING

● During the emergency CPR operation, make sure that the patient's head, arms, feet or other parts of the body have not entered the gap between the back section base and the frame. There is a risk of them getting caught, resulting in injury.

■ In case of an emergency or a power failure, the raised back section base can be quickly returned to flat status.

Head end



Foot end

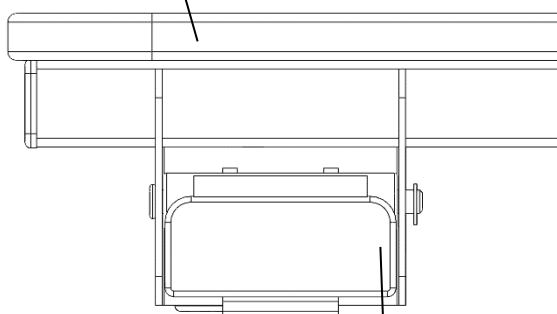


<Emergency CPR procedure>

① Place one hand on the side of the back section base and pull the emergency CPR lever (orange). Levers are located at both sides of the bed under the back section base and either lever can be used.

② Keep pulling the lever until the back section base returns to flat status. (If you release the emergency CPR lever halfway through, the back-lowering operation is stopped.)

Back section base



Emergency CPR lever (orange)



NOTE!

● Depending on the patient's weight, the back section base may not be lowered. In such a case, lightly push down the back section base.

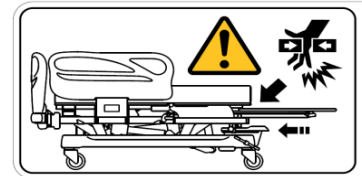
<Operation after emergency CPR>

Back-raising and back-lowering can be operated using the buttons on the handheld controller in power on status.

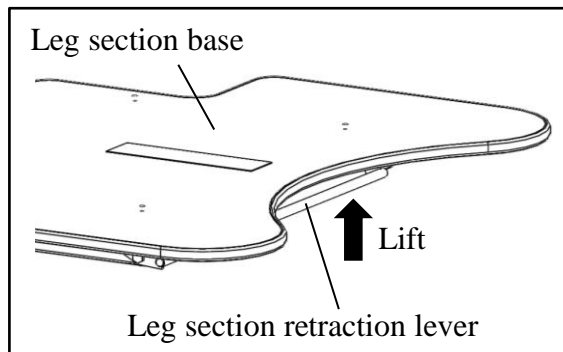
2. Retracting the leg section base

WARNING

- Do not sit on the leg section base. Otherwise, the leg section base may get damaged or the bed may tip over, causing injury.
- Be careful not to allow fingers to enter the gap between the hip section base and the leg section base when operating the leg section base. There is a risk that fingers may get caught, resulting in injury.
- When operating the leg section base, make sure that it is locked. Otherwise, the leg section base may move unexpectedly, causing injury.



- The leg section base can be retracted during delivery.

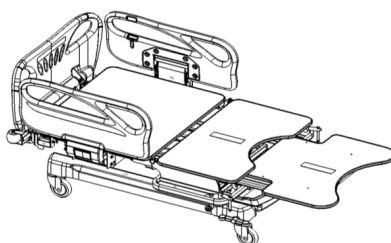
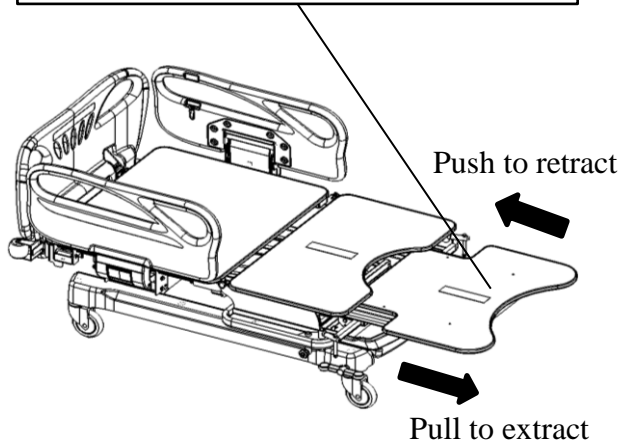


[Retracting the leg section base]

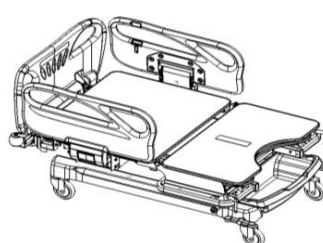
- ① Remove the foot mattress from the leg section base.
- ② Lift the leg section retraction lever to unlock, and push the leg section base inward.
- ③ Lightly pull the leg section base and make sure that it is locked.

[Extracting the leg section base]

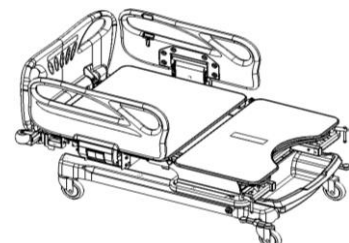
- ① Lift the leg section retraction lever to unlock, and pull the leg section base outward.
- ② Lightly push the leg section base and make sure that it is locked.
- ③ Place the foot mattress on the leg section base.



Bed condition



Extracted position



Retracted position

8 OPERATION PROCEDURES

3. Locking the casters

WARNING

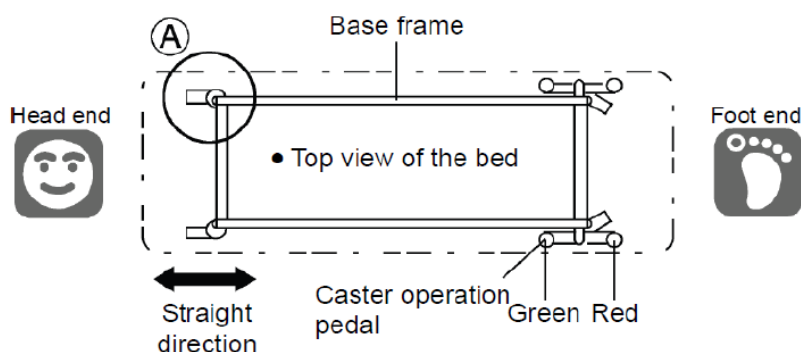
● Lock the casters at all times except when moving the bed. The bed may move when a patient gets into or out of the bed, resulting in an unexpected injury.

CAUTION

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

<Total locking system>

● The casters can be set to either of the positions below by operating the caster operation pedal on the foot end.



① Locking the four wheels (Lock position)

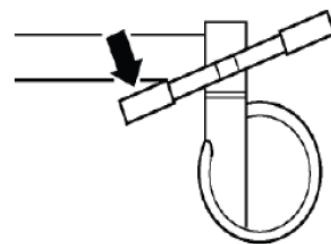
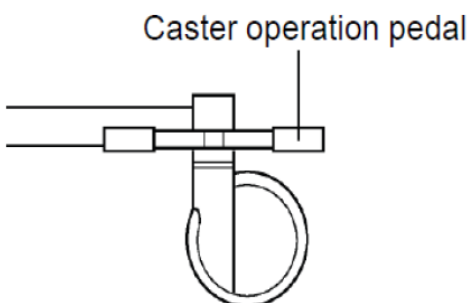
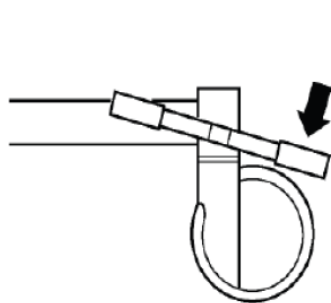
Depress the red pedal to lock swiveling and rotation of the four wheels.

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)

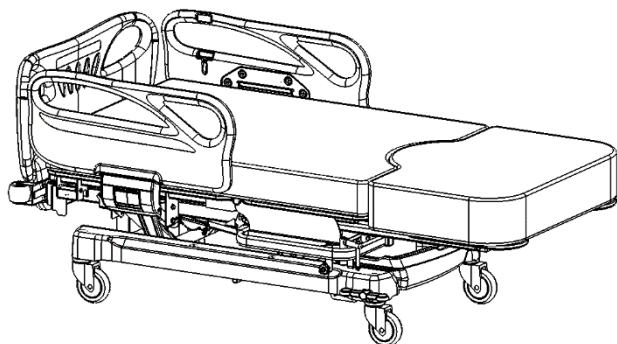
Depress the green pedal to lock swiveling of the caster (A) (one wheel only) in a straight forward direction. This makes it easier for the bed to be moved forward in a straight line.



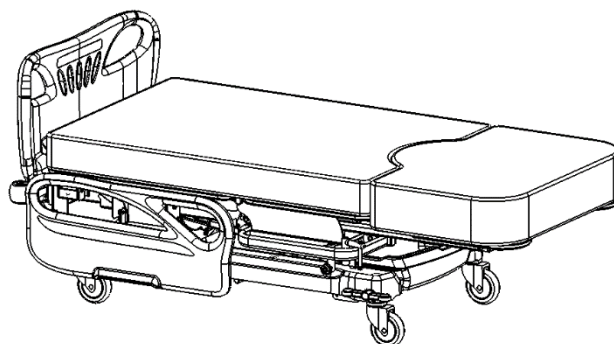
● Inspect the casters regularly. Depending on the frequency of use and the environment, casters will exhibit wear and deterioration. (High-temperature and high-humidity conditions may accelerate the deterioration.)

4. Using the bed side-rails

- There are a total of two side-rails, one side-rail on the left and another on the right.
- Side-rails prevent the patient from falling off the bed. The patient can also hold onto the side-rail when giving birth.

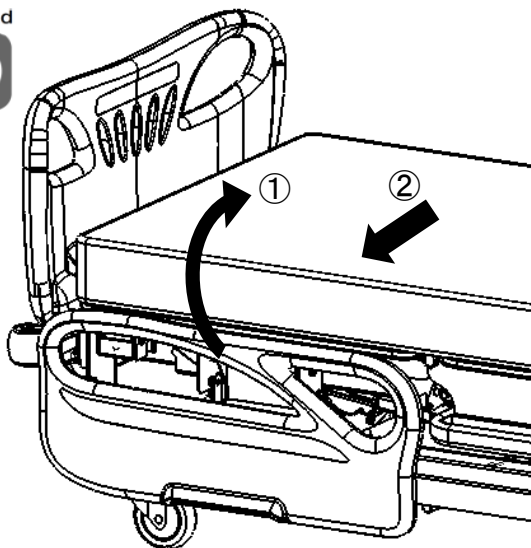


Side-rail position when it is raised.



Side-rail position when it is lowered.

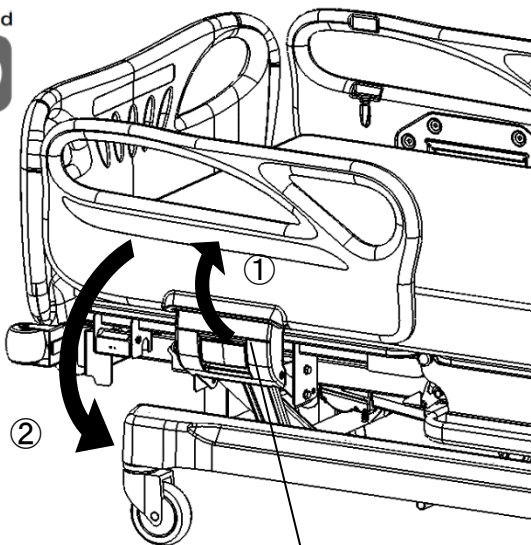
Head end



[Raising the side-rails]

- ① Lift the side-rail and push in until it clicks into place.
- ② Pull the side-rail toward you to make sure that the side-rail is locked.

Head end



[Lowering the side-rails]

- ① Use one hand to hold the grip of the side-rail.
- ② Use the other hand to pull the operation lever toward you and, while supporting the side-rail, lower the side-rail until it stops.

Operation lever

WARNING

- Be careful not to allow any part of the body (especially the head or neck) to enter the gap between the side-rail and the mattress base or the mattress. When 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.
- Do not adjust the side-rails from inside the bed. The side-rails may drop suddenly and there is a risk of injury caused by a patient falling off the bed.
- Do not let the patient lean against the side-rail while it is raised. The patient may lose balance and fall off the bed, resulting in injury.
- Do not place legs on the side-rail while it is lowered. The bed could turn over, resulting injury.
- When raising side-rails, make sure that the side-rails are locked. If the side-rails are not completely locked, they may move unexpectedly, resulting in injury.
- Take care to prevent the intravenous tubes or the drain tubes from getting caught. When operating the side-rails, tubes could get caught between the side-rail and mattress and be damaged, resulting in injury.
- When performing the height adjustment or inclination angle adjustment with the side-rail lowered, do not place legs under the side-rail. There is a risk of getting caught, resulting in injury.
- When operating the side-rails, make sure that the patient's hands or feet have not entered the gap between the side-rail and mattress base. When the hands or feet enter the gap, the patient could get caught in the gap, resulting in injury.
- When operating the side-rail with the back section base raised, operate the side-rail with caution. Depending on the back section base angle, the side-rails may move unexpectedly and there is a risk of injury.

5. Using the battery unit

CAUTION

● Incorrect operation in disregard of the details given below will result in personal injury or damage due to leakage, fire, explosion, electric shock, or rupturing.

- Do not disassemble the battery case or built-in battery.
- Do not incinerate the battery unit.
- Do not recharge the battery other than with the suitable control box of the bed.
- Do not use the battery unit with equipment other than the suitable bed.
- Do not subject the battery unit to impact.
- Do not recharge the battery unit or operate the bed with the bed turned upside down.

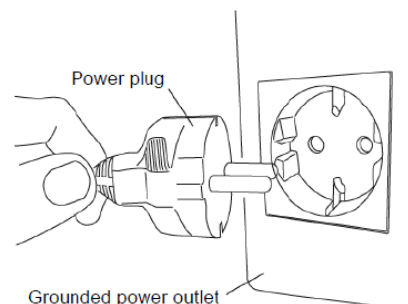
■ The battery is an auxiliary power supply for operating an electrically operated bed when not connected to a power outlet.

[Operating the bed on battery power]

● The bed is powered by the battery when the power plug is not connected to the power outlet or during a power failure.

[Recharging]

● Recharging starts as soon as the bed power plug is plugged into the power outlet.



NOTE!

● The battery should be charged (for more than 24 hours) immediately after purchase.

[Battery life]

● The battery is not designed to be recharged after being totally discharged. Repeatedly recharging the battery from zero charge will reduce its operating life. Always recharge the battery after operating the bed on battery power.

● To ensure a long battery life, recharge the battery promptly.



NOTE!

● The battery life will vary depending on the usage frequency, usage conditions and storage conditions. Regardless of whether the battery is used, its life will start to reduce after a few years.

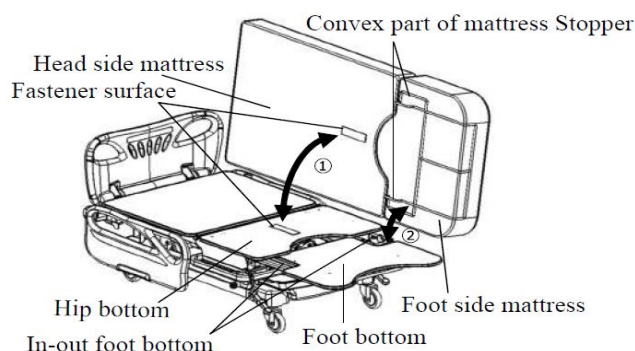
⚠ WARNING

- Do not use the bed without the mattress. Body parts (fingers, hands or legs) may get caught in the gap between the mattress bases, resulting in injury.
- Be sure to use suitable mattresses as 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. The codes of suitable mattresses are as follow.
Head Mattress: PE201. Foot mattress: PE202.
- When attaching the mattresses, make sure the Velcro tapes on the mattresses align with the Velcro tapes on the base.

⚠ CAUTION

- The mattress is not used for preventing bedsores. Using for prolonged periods 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.

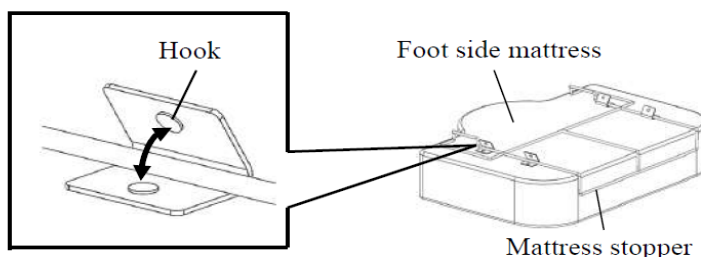
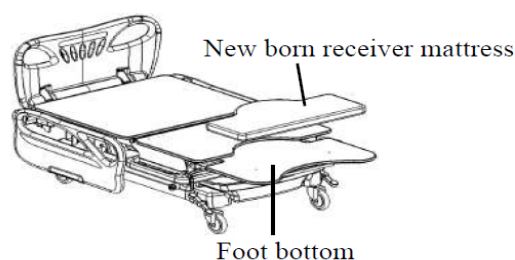


<How to attach>

1. As shown in left figure, set head side mattress while adjusting hip bottom and fastener surface.
2. Put foot side mattress on the foot bottom, so that the convex part of mattress stopper insert into in-out foot bottom.
After placing foot side mattress, make sure that mattress does not slip out of position.
3. There are two side in new born receiver mattress. Set gray color concave part of hip bottom and concave part of new born receiver mattress is match.

<How to remove>

Remove by reverse the procedure.
When doing cleaning, remove hook foot side mattress if remove mattress stopper.



10 SUITABLE PRODUCTS

1. Suitable products table

WARNING

- Use suitable products after confirming that the combination with the bed is correct. Using the bed with the wrong combination of suitable products could result in injury or could damage the products. The part number of each suitable product 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.



- When 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.52) or your distributor.

Suitable product ^{*1)*2)}	Model No. ^{*1)}	Reference page
Foot rest	PC-5051, PC-5054, PC-5064	32
Foot support bar	PC-5052	33
Oxygen cylinder holder	PC-5038	34
IV pole	KC-56A, KC-56B, EC-562	35

*1) These products may not be available in some countries or regions. For details, contact Paramount bed (see p.52) 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.52) or your distributor.

2. Foot rest (PC-5051, PC-5054, PC-5064)

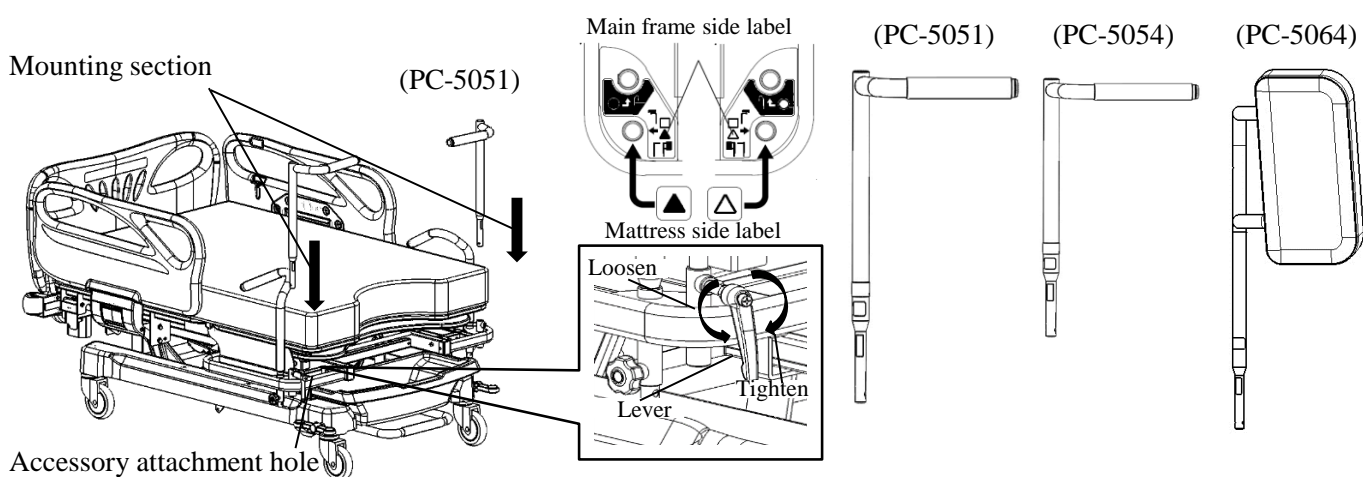
This foot rest is designed to be attached to the bed for supporting body of patient during delivery.

WARNING

- Be careful not to allow any part of the body to enter the gap between the foot rest and the mattress base, or hand grip. When any part of the body enters the gap, the patient might not be able to withdraw, and there is a risk of injury. Detach the foot rests except when giving birth.
- Make sure that the lever is tightened firmly. Otherwise, the foot rest may move, causing an injury.

■ The foot rest can be used during delivery.

- ① Direct outward the planar section of the mounting section of the foot rest, and insert the mounting section into the accessory attachment hole as shown in the figure.
- ② Turn the lever to fasten the foot rest.
- ③ Lightly pull the foot rest and make sure that it is fastened.



NOTE!

- The right foot rest and the left foot rest are different. Be careful not to attach wrongly.
- 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 dealer.

3. Foot support bar (PC-5052)

This foot support bar is designed to support a doctor or nurse posture.

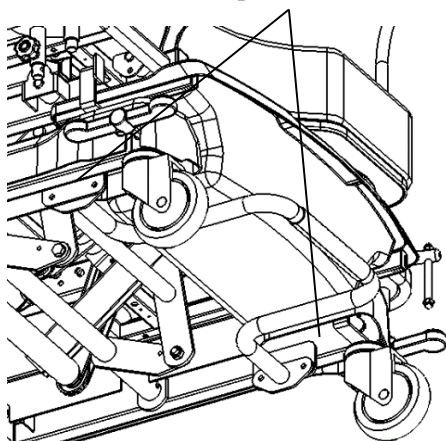
CAUTION

● When using the foot support bar, pay attention not to touch the fluid basin. Otherwise, the fluid basin may be tipped over accidentally.

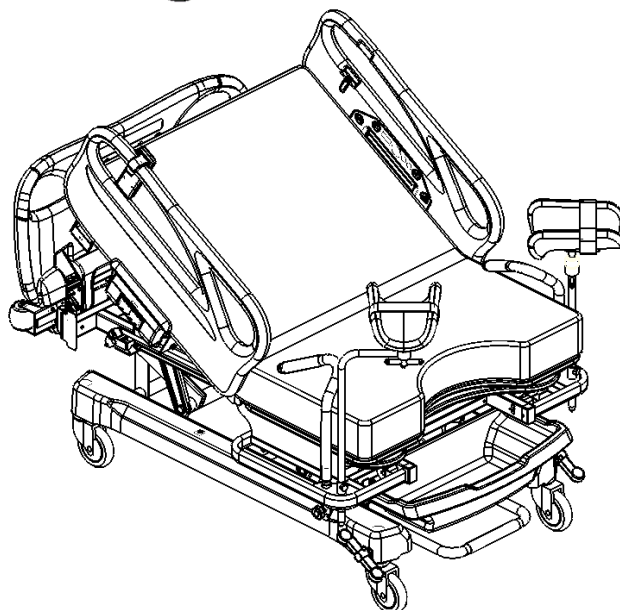
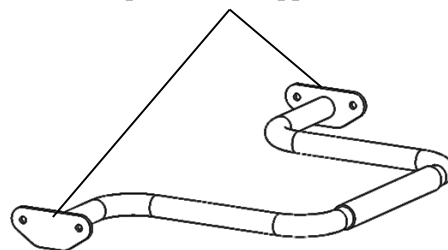
■ The doctor can use the foot support bar.

- ① Insert the attached bolts into the holes of the attachment plates of the bed and the foot support bar. Tighten the bolts and nuts.
- ② Lightly pull the foot support bar and make sure that it is fastened.

Attachment plate (bed)



Attachment plate (foot support bar)



● 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 dealer.

4. Oxygen cylinder holder (PC-5038)

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

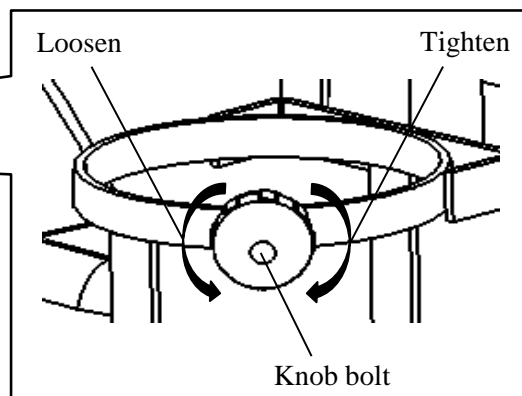
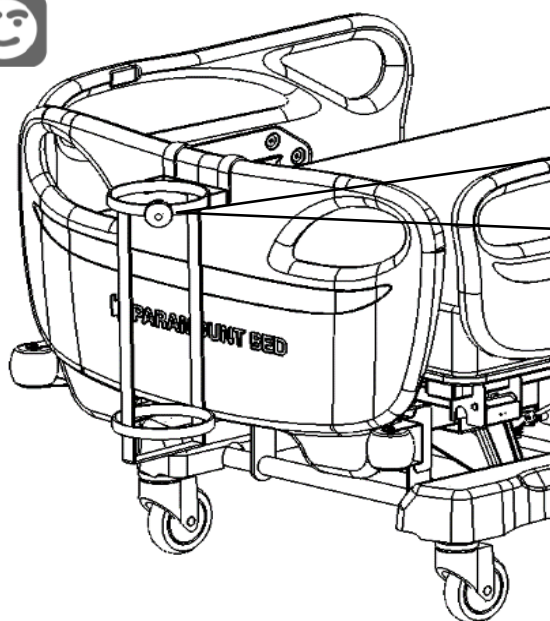
WARNING

- Make sure that the knob bolt is tightened firmly or there may be 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 bed. There is a risk of injury due to damage to a flow meter or the oxygen cylinder if the cylinder comes into contact with another object.

■ The oxygen cylinder holder can be used by hanging it on the head board.

- ① Hang the oxygen cylinder holder on the head board.
- ② Loosen the knob bolt on the oxygen cylinder holder, and then slowly insert the oxygen cylinder into the holder from the top.
- ③ Firmly tighten the knob bolt to fasten the oxygen cylinder.

Head end



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 dealer.

5. IV pole (KC-56A, KC-56B, EC-562)

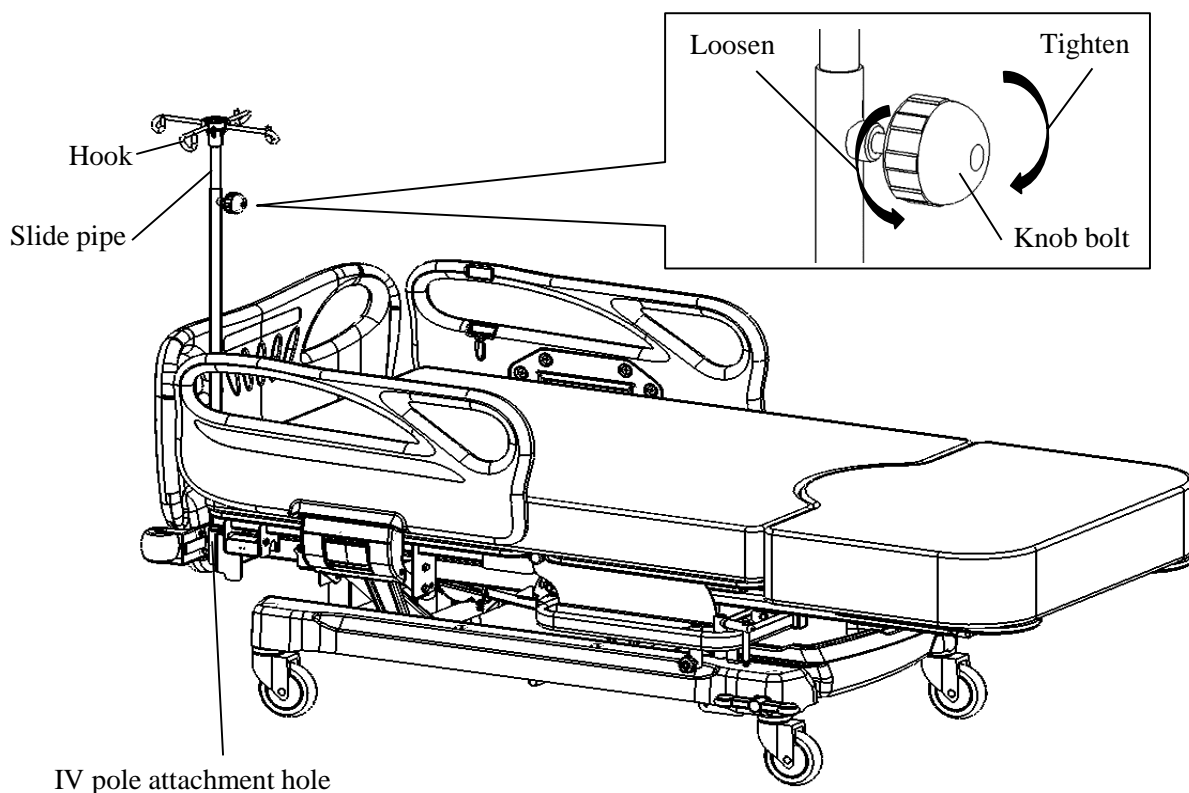
This IV pole is designed to be attached to the medical device when giving an intravenous drip to a patient.

WARNING

- Do not move the bed using the attached IV pole. The IV pole may break, resulting in injury.
- Do not use the IV pole as a support to stand up. The IV pole may come off or break, causing falls which may result in injury.
- When using the IV pole, do not put a hand or arm between the mattress base or the head board and the IV pole. The hand or arm may get caught, resulting in injury.
- 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 injury.
- Length adjustment of the slide pipe should be kept within 70cm. If the slide pipe is over-extended, it may come off, resulting in 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 IV pole attachment holes.
- 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.



● 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 dealer.

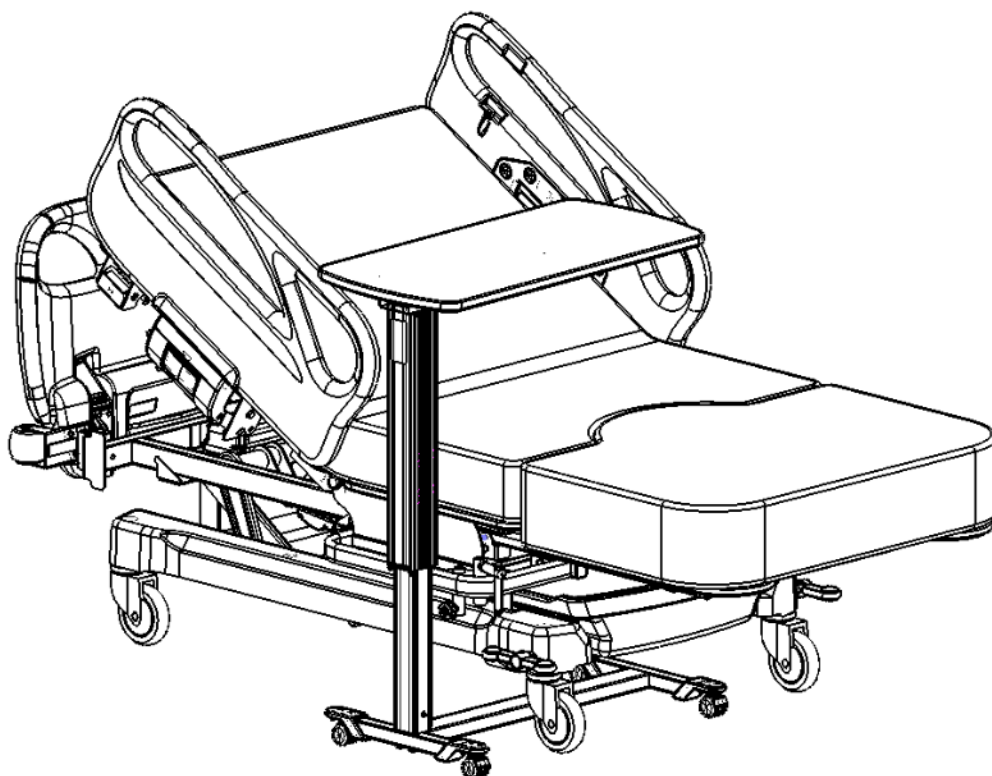
11 BEDSIDE TABLE

WARNING

● Remove the table from the bed when performing positioning operations of the bed. Otherwise, the patient may get caught between the table and the bed, and may get injured.

■ The bedside table can be used as a table for meals or other activities when on the bed.












Suitable bedside table
KF-282
PF-3100A, PF3110A
PF-3120A, PF-3130A


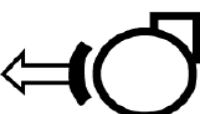

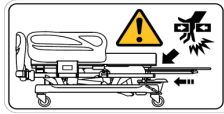









● The description in this instruction manual may differ from the actual product due to specification changes. For any queries, please feel free to contact your dealer.







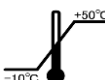
12 PRODUCT SYMBOL DEFINITIONS






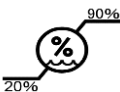
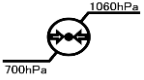
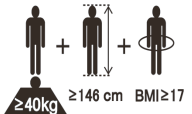
■ The symbols below are used for the product.

Symbol	Description
	● CE mark
	● Indoor use
	● Electrical waste
	● See the instruction manual
	● Type B equipment
	● AC input
	● Protection code
	● Model number
	● Authorized representative in the European community
	● Serial number
	● Product weight

Symbol	Description
	● 4 casters in locked status (Lock position)
	● 4 casters in unlocked status (Free position)
	● Entrapment foot warning label
	● Be careful not to allow fingers to enter the gap between the hip section base and the leg section base.
	● Bed transportation status (steering position)
	● Take care to prevent body parts from getting caught in the moving parts on the bed.
	● Take care to prevent the patient's head from getting caught in the gap between the side-rails and the bed.
	● Do not allow any part of the body to enter the gap in the side-rail and the board.
	● Safe working load
	● Maximum patient weight
	● Total weight including load capacity

■ The symbols below are used for the product.

Symbol	Description
	● Do not stand or sit on the side-rail.
	● The side-rails must be operated by a caregiver.
	● Use side-rails after checking that they are locked.
	● Manufacturer *It may be called "Legal Manufacturer" or "Brand Owner" etc. *This symbol is not applicable in the country 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 is 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.
	● Indicates the storage temperature

Symbol	Description
	● Take care to prevent fingers from getting caught by the moving parts on the bed.
	● Check that the side-rail is locked.
	● Do not sit on the leg section base.
	● Lot number
	● 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).
	● Indicates the storage humidity
	● Indicates the storage atmospheric pressure
	● The medical bed for adults

13 REGULAR INSPECTION AND DAILY MAINTENANCE

■ For safety during usage, 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 bed, and the presence of damage regularly. When an irregularity has been noticed or a detailed inspection is desired, contact your dealer.

	Operation details	Inspection items
Bed Unit	Back raise operation (p.21 to p.23)	Proper operation can be achieved.
		There must not be any strange noises.
	Height and inclination operations (p.21 to p.23)	Proper operation can be achieved.
		There must not be any strange noises.
	Leg section base operation (p.25)	The stopper must be locked properly.
		The leg section base must move smoothly when the lock is released.
	Miscellaneous	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.		
Board	Board mounting condition (p.15)	The board stopper must be locked properly.
		There must not be any remarkable rattling.
Casters	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.26)	Proper operation can be achieved.
		The operation must not be unusually difficult.
		The bed must not move when the casters are locked.
		The bed must move smoothly when the lock is released.
Bed side-rail	Bed side-rail operation (p.27 to p.28)	When in steering position, swiveling of the steering caster must be locked.
		Proper operation can be achieved.
		There must not be any strange noises or remarkable rattling.
Electrical part	Visual check of electrical parts	The operation must not be unusually difficult.
		Cable must not get entangled in the bed.
		Plugs and cables must have no scratches or damage.
		There must not be any scratches and damage on the handheld controller.

〈Lubrication (if there is abnormal noise)〉

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



- Water adhesion to the bed or the mattress, or moisture may cause corrosion, abnormal noise or contamination. If water adheres to the bed or the mattress, wipe off immediately.

〈Bed unit〉

- To clean the bed, 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 bed to ensure it is dry.
- To wash the bed using water, pour water on the bed to wash out stains. Finally, use a dry cloth to wipe the bed to ensure it is dry.
- To disinfect the bed, always dilute detergents used as specified below and follow the instructions described in the instruction manual.

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% - 1.0% sodium hypochlorite (e.g. Milton)

- The bed should be disinfected before a different patient uses the bed.

⚠ 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 those specified. There is a risk of damage or deterioration.

- After cleaning the bed 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 to the 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.



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

CAUTION

- Do not wash the padding. There is a risk of padding degradation.
- Do not use a mattress washer, an ozone sterilizer or autoclave apparatus. There is a risk of damage, deterioration or degradation.
- Do not leave any blood, urine, sudor or sebum on the mattress. Clean dirt frequently with neutral detergent or soap. If left untreated, the surface material may degrade, smell or stain may result.
 - 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 deterioration.
- 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 those specified. There is a risk of damage or deterioration.

〈Mattress unit〉

- When the mattress gets dirty or the persons who use the mattress change, be sure to clean and disinfect both surfaces of the mattress in accordance with the procedures 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 using 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.
 - 0.05% - 0.2% benzalkonium chloride (e.g. Osvan)
 - 0.05% - 0.2% benzethonium chloride (e.g. Hiamine)
 - 0.05% chlorhexidine gluconate (e.g. Hibitane)
 - 0.1%-1.0% sodium hypochlorite (e.g. Purelox)
 - 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.

CAUTION

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



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

14 TROUBLESHOOTING

- 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 bed immediately, disconnect the power plug from the outlet, and contact your dealer for repair.
- Bed damaged in earthquakes, fires, floods or other incidents must be inspected and repaired by your dealer. Otherwise, there is a risk of electric shock or fire due to short circuit or current leakage from electrical parts, or injury due to malfunctioning caused by deformation of the bed.

Problem	Check	Corrective action	Reference page
● The bed does not move even when the handheld controller buttons are pressed.	● Check if the power plug is plugged into the outlet.	● Plug the power plug into the outlet.	20
	● The power plug is plugged into the outlet but the bed still does not move.	● Unplug the power plug from the outlet and plug it in again. ● Plug another electrical device into the outlet to check that power is available.	20
● The POWER Lamp on the handheld controller is OFF.	● Check if the power plug is plugged into the outlet.	● Plug the power plug into the outlet.	20
	● The power plug is plugged into the outlet but the POWER lamp on the handheld controller is OFF.	● Unplug the power plug from the outlet and plug it in again. ● Plug another electrical device into the outlet to check that power is available.	20
● The bed cannot be positioned correctly.	● Check that there is nothing in the moving parts on the bed.	● Remove any obstacles.	-
● The bed cannot be moved.	● Check if the casters are locked.	● Unlock the casters.	26
● The bed does not move in the intended direction when the patient is being transported.	● Check if the caster is in the steering position.	● Set the caster in the steering position.	26
● The board cannot be removed.	● Check if the board is locked.	● Unlock the board stoppers.	15

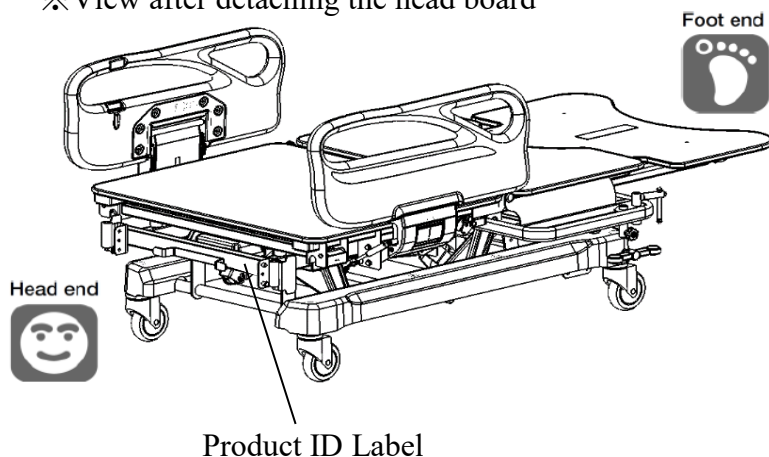
● When requesting repairs or contacting your dealer, please provide the number on the product ID label.

■ Product ID label locations

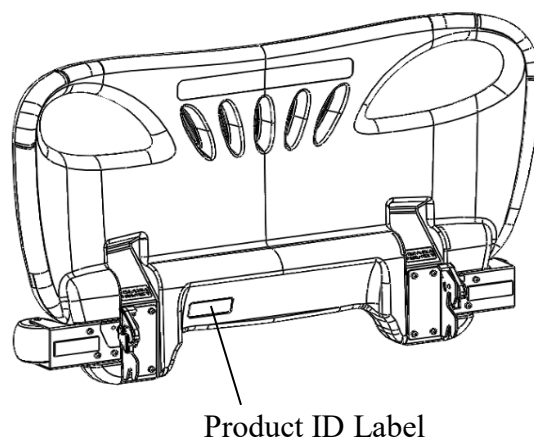
Product ID labels are affixed to the head end of the main frame, inside of the head board, hand grip, head mattress, foot mattress, fluid basin and calf support.

<Main frame>

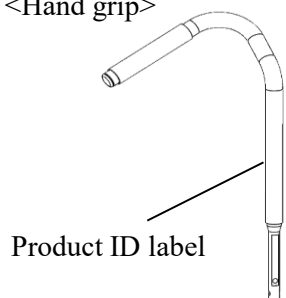
※View after detaching the head board



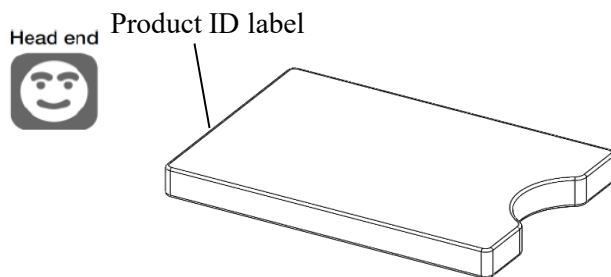
<Head board>



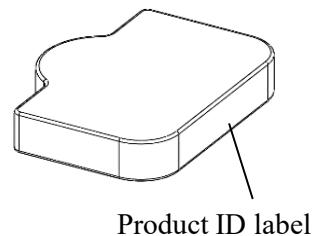
<Hand grip>



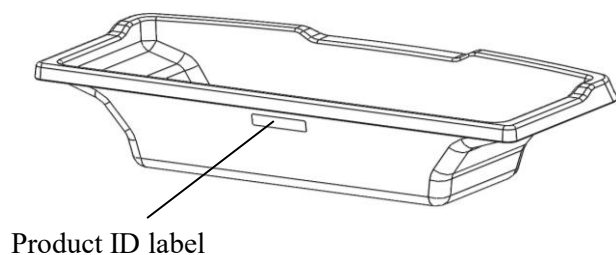
<Head Mattress>



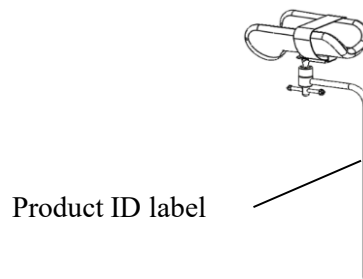
<Foot Mattress>



<Fluid basin>



<Calf support>



■ Product lifetime

The lifetime of this equipment is typically eight (8) years. Lifetime is defined as the period during which the product will maintain the specified performance and safety, provided it has been maintained and operated in conditions of normal use in accordance with the requirements in the instruction manual.

15 LONG-TERM STORAGE

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

1. Lay the back section base flat.
2. Lower the bed to the lowest position.
3. Do not place objects other than mattress on the bed.
4. Do not place any objects on the mattress.
5. Do not place in a location that tends 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 20%RH and 90%RH, and atmospheric pressure between 700hPa and 1060hPa.
6. Store the bed horizontally; do not stand it upright against the wall.
7. For electrically-operated beds, be sure to disconnect the power plug from the power outlet and wind the power cable onto the cable storage hook. (See p.20)



- Inspect the product regularly at least once a year, even during storage.

16 SPECIFICATIONS

Family Name		PD-200 Series
Product Name		Electric Delivery Bed
Model No. (*1)		PD-200
Quantity of motors		3 Motors
Operation Procedure	Back raising	Motorized
	Height adjustment	Motorized
	Bed inclination	Motorized
Power supply voltage / frequency		AC200-240V \pm 10% / 50/60Hz
Dimensions	Total length	2,072mm
	Total width	1,056mm (When the bed side rails are raised.) 1,140mm (When the bed side rails are lowered.)
	Total height	883[+10] to 1,213[-20]mm
	Mattress base length	1,330mm (In bed length retracted) 1,910mm (In bed length normal)
	Mattress base width	910mm
	Mattress base height (*2)	500[+10] to 830[-20]mm
	Casters	125mm dia. single-wheel casters (Total locking system)
	Power cable length	Effective length: 2,500mm
Product weight		113kg
Material	Mattress base	Made of steel, powder coating (part is resin mold item) / Particle board
	Main frame	Made of steel, powder coating (part is resin mold item)
	Side rail	PE resin mold items
	Head board	
Safe working load (*3)		220kgf (2,150N)
Back raising	Inclination angle	0° to 65°(± 6.5) ⁰
	Time required	28sec. (*4)
Height adjustment	Height range	330mm
	Time required	23sec. (*4)
Bed inclination	Inclination angle	0° to 12°(± 2) ⁰
	Time required	13sec. (*4)
Actuator Type		Linear actuator (DC motor)
Power consumption	Back raising	84VA or less
	Height adjustment	106VA or less
Duty cycle		2 min. (stop time: 18min. (*5))
Mattress	Dimensions	Head Mattress: Width 910mm \times Length 1,330mm \times Thickness 130mm Foot Mattress: Width 910mm \times Length 705mm \times Thickness 175mm
	Surface material	Vinyl leather
	Core material	Urethane foam
Service life		8 years (based on Paramount Bed data), excluding consumable items such as casters

*1) Put an alphabet after "Model No.", the alphabet represent the product color.

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

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

*4) With no loads

*5) Time to protect electrical parts from overheating when the bed is used continuously for duty cycle (2min).



● Put the plug code "A~H" after the product code.

Environmental conditions	Range	
	When transported or stored	When in use
Temperature	-10 to 50°C	5 to 40°C
Humidity	20 to 90%RH	20 to 90%RH
Air pressure	700 to 1,060hPa	700 to 1,060hPa

Patient target groups	User weight (min-max)	40kg to 180kg
	Minimum user height	146cm
	Minimum user body mass index (BMI)	17
	Supported age range	13 years and older *Do not use the bed for children (aged 12 or under) or patient weighing more than 180kg.
Intended users		Health care workers, pregnant women ready to delivery, maintenance staff
Clinical benefit		Patient comfort Quality patient care and efficient care provision

● Essential performance

Function to support the body of patient, Emergency CPR (back lower) function.

● Frequently used functions

Back-raising, height adjustment, trendelenburg, side rail raising and lowering operation.

● Classification and Standards

The electric delivery bed 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 + CORR. 1:2006 + CORR. 2:2007+AM1:2012
: IEC60601-1-2:2014
: EN 60601-1:2006 +A12:2014
: EN 60601-1-2:2015
- Electric shock protection : Class 1 , Type B

※Equipment not suitable for use in the presence of a flammable anaesthetic mixture.

For the PD-200 Series, special attention is required to EMC-related safety.

Install, operate and use the bed in accordance with the following information.

Bed is intended for use in the electromagnetic environment specified by "electromagnetic disturbance" of bed.

The following abnormality may occur if using bed in unintended environment.

*The function for supporting patient's weight does not maintain.

*The function for back lower does not maintain.

WARNING

- If using the other specified accessories, transducers and cable as a replacement part for internal components, except for transducers and cables sold by the manufacturer of bed, there is a risk of increasing the emissions or reducing the immunity of bed.
- Use portable RF transceiver more than 30 cm away from any part of bed (including peripheral equipment such as antenna cable and external antenna). If it is used within 30 cm, the bed performance may degrade.
- Bed cannot be used with adjacent to or stacked with other equipment. If it must be used adjacent to or stacked with other equipment, make sure to monitor that it can operate properly in the

Bed is intended for use in clinic, restricted medical facilities, hospital (except near high-frequency surgical instrument, RF shielded room for magnetic resonance). Users or customers must use bed in this environment. Bed is device that suitable to used in hospital due to emission characteristics. If it used in housing environment, the equipment may not provide adequate protection againsts wireless radio frequency transceiver. The user may need to take mitigation measures such as relocating or redirecting the device.

No.	Cable	Maximum length [m]	Remarks
1	AC power cable	4.6	Without shield
2	Handheld controller cable	1.0	Without shield
3	Nurse control panel cable	0.2	Without shield

Guidance and Manufacturer's Declaration - Electromagnetic Emissions

The PD-200 Series is intended for use in the following electromagnetic environment. The customer or user of the PD-200 Series should make sure it is used in such an environment.

Emission test	Compliance	Electromagnetic Environment - Guidance
RF emissions CISPR 11/EN 55011	Group 1	The PD-200 Series uses RF energy only for its internal functions. Therefore, its RF emissions are low and are not likely to cause any interference with nearby electronic equipment. The PD-200 Series is suitable for use in all establishments other than domestic and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
RF emissions CISPR 11/EN 55011	Class A	
Harmonic emissions IEC 61000-3-2/EN 61000-3-2	Class A	
Voltage fluctuations/flicker emissions IEC 61000-3-3/EN 61000-3-3	Complies	

Guidance and Manufacturer's Declaration - Electromagnetic Immunity

The PD-200 Series is intended for use in the following electromagnetic environment. Users or customers must use bed in this environment.

Immunity test	IEC 60601-1-2/EN 60601-1-2 Test level	Compliance level
Static electricity discharge (ESD) IEC 61000-4-2 /EN 61000-4-2	Contact discharge: $\pm 8\text{kV}$ Air discharge : $\pm 2\text{kV}$, $\pm 4\text{kV}$, $\pm 8\text{kV}$, $\pm 15\text{kV}$	Contact discharge: $\pm 8\text{kV}$ Air discharge : $\pm 2\text{kV}$, $\pm 4\text{kV}$, $\pm 8\text{kV}$, $\pm 15\text{kV}$
Electrical fast transient/burst IEC 61000-4-4 /EN 61000-4-4	$\pm 2\text{kV}$ power supply line	$\pm 2\text{kV}$ power supply line
Surge IEC 61000-4-5 /EN 61000-4-5	Line - line: $\pm 0.5\text{kV}$, $\pm 1.0\text{kV}$ Line - ground: $\pm 0.5\text{kV}$, $\pm 1.0\text{kV}$, $\pm 2.0\text{kV}$	Line - line: $\pm 0.5\text{kV}$, $\pm 1.0\text{kV}$ Line - ground: $\pm 0.5\text{kV}$, $\pm 1.0\text{kV}$, $\pm 2.0\text{kV}$
Power frequency magnetic fields IEC 61000-4-8 /EN 61000-4-8	30 A/m	30 A/m
Voltage Dips IEC 61000-4-11 /EN 61000-4-11	0% UT: 0.5 cycles Phase: 0° , 45° , 90° , 135° , 180° , 225° , 270° , 315°	0% UT: 0.5 cycles Phase: 0° , 45° , 90° , 135° , 180° , 225° , 270° , 315°
	0% UT: 1 cycles 70% UT: 25/30 cycles Single phase: 0°	0% UT: 1 cycles 70% UT: 25/30 cycles Single phase: 0°
Short interruptions IEC 61000-4-11 /EN 61000-4-11	0% UT: 250/300 cycles	0% UT: 250/300 cycles

Note: UT is the AC power voltage before applying the test level.


Guidance and Manufacturer's Declaration - Electromagnetic Immunity

The PD-200 Series is intended for use in the following electromagnetic environment that used wireless RF transceiver. Electromagnetic interference can be prevented by maintaining the minimum distance between RF transceiver and PD-200 Series depend on the maximum output and frequency of the communication device as recommended below.

Immunity test	IEC 60601-1-2 /EN 60601-1-2 Test level	Compliance level (V/m)	Band (MHz)	Service	Modulation	Maximum power (W)	Distance (m)
Enclosure port to RF wireless communications equipment IEC 61000-4-3 /EN 61000-4-3	27V/m 385MHz	27	380-390	TETRA 400	Pulse modulation 18kHz	1.8	0.3
	28V/m 450MHz	28	430-470	GMRS 460, FRS 460	FM±5kHz deviation 1kHz sine	2	0.3
	9V/m 710MHz	9	704-787	LTE Band 13, 17	Pulse modulation 217kHz	0.2	0.3
	9V/m 745MHz						
	28V/m 810MHz	28	800-960	GSM 800/900, TETRA 800, iDEN 820, CDMA 850 LTE Band 5	Pulse modulation 18kHz	2	0.3
	28V/m 870MHz						
	28V/m 930MHz						
	28V/m 1720MHz	28	1700-1990	GSM 1800, CDMA 1900, GSM 1900, DECT, LTE Band 1, 3, 4.25, UMTS	Pulse modulation 217kHz	2	0.3
	28V/m 1845MHz						
	28V/m 1970MHz						
	28V/m 2450MHz	28	2400-2570	Bluetooth, WLAN, 802.11 b/g/n RFID 2450, LTE band 7	Pulse modulation 18kHz	2	0.3
	9V/m 5240MHz	9	5100-5800	WLAN 802.11 a.n	Pulse modulation 217kHz	0.2	0.3
	9V/m 5500MHz						
	9V/m 5785MHz						

Guidance and Manufacturer's Declaration - Electromagnetic Immunity

The PD-200 Series is intended for use in the following electromagnetic environment. The customer or user of the PD-200 Series should make sure it is used in such an environment.

Immunity test	IEC 60601-1-2 /EN 60601-1-2 Test level	Compliance level	Electromagnetic Environment - Guidance
RF Conductivity IEC 61000-4-6 /EN 61000-4-6	3V 0.15MHz-80MHz	3V 0.15MHz-80MHz	Field intensity from the fixed RF transmitter determined by a field investigation of the magnetic field must be lower than the compliance level of the respective frequency band. Near devices with the following symbol, interference could occur. 
	6V in ISM bands between 0.15MHz-80MHz 80% AM at 1kHz	6V in ISM bands between 0.15MHz-80MHz 80% AM at 1kHz	
Radioactive RF electromagnetic field IEC 61000-4-3 /EN 61000-4-3	3 V/m 80 MHz -2.7 GHz 80% AM at 1kHz	3 V/m 80 MHz -2.7 GHz 80% AM at 1kHz	

- a. The intensity of a magnetic field from fixed transmitters such as a radio (mobile/radio) telephone base station, land mobile radio, amateur radio, AM and FM radio broadcasting, and TV broadcasting cannot be theoretically predicted accurately. To determine the electromagnetic environment for a fixed RF transmitter, consider investigating the electromagnetic field in the location where the bed is used. If the intensity of the magnetic field in the location where the PD-200 Series is used exceeds the above RF compliance level, make sure to monitor if the PD- Series operates appropriately. If abnormal movement is found, take additional measures as needed, such as changing the direction or position of the PD-200 Series.
- b. These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects, and people.

1. When requesting repairs

First check the items described in “14. TROUBLESHOOTING” (p. 42-43) in this instruction manual. If the problem persists, disconnect the bed's power plug from the power outlet and contact your dealer.

■ Details necessary when requesting repair

- Product name, model number
- Product ID label number (see p.43)
- Date of purchase
- Details of fault or problem (please provide as much details as possible)
- Your name, organization, address, and phone number

■ Consumable parts

The mattress, casters, handheld controller, and rubber parts are consumable parts.

2. Minimum stock availability period

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

3. Questions regarding after-sales service

Please contact your dealer.

Bed disposal



When the PD-200 Electric delivery bed has reached the end of its usable life, discard it according to local standards.

Contact information

For any queries, please feel free to contact your dealer or to the following addresses.

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

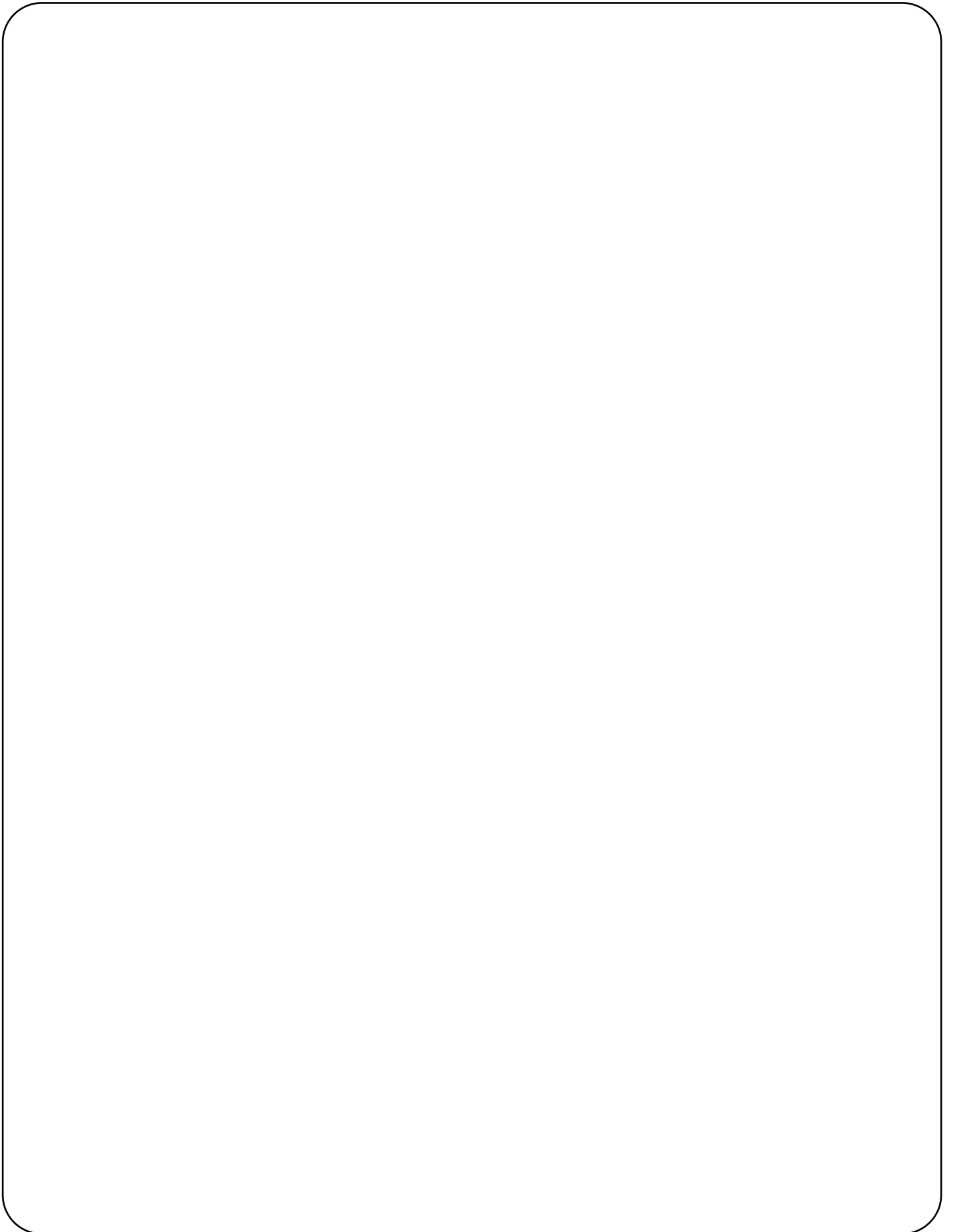


EMERGO EUROPE

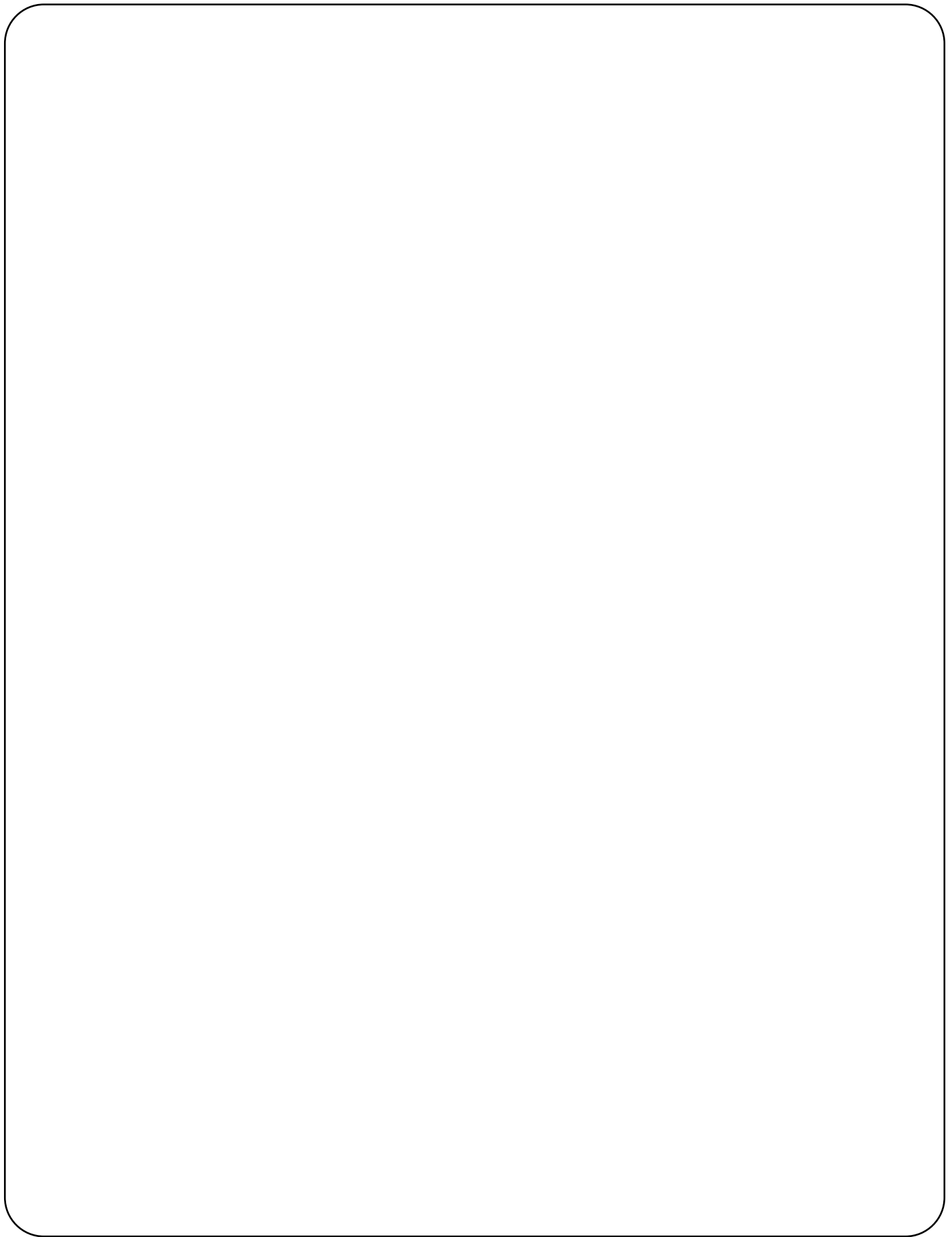
Westervoortsedijk 60,
 6827 AT Arnhem
 The Netherlands



NOTES

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