



Panacea®

1000-FLEX BED

ADJUSTABLE HEIGHT LOW BED

Owner's Manual

Please keep and refer to this Owner's Manual.

Thank you for purchasing a Panacea® 1000-FLEX Bed from Direct Supply Equipment & Furnishings®. Please read this entire guide carefully and keep it for future reference. This guide will provide you with instructions, warnings, warranty information and other important information about your Panacea bed. Share this information with your housekeeping, nursing and maintenance staff to help ensure the bed is cared for properly.

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⚠ WARNING: Reducing the Risk of Entrapment.

The Hospital Bed Safety Workgroup (HBSW), in partnership with the FDA, has recognized potential entrapment zones in hospital bed systems and has developed dimensional guidance to reduce the risk of entrapment. The FDA considers the term “hospital bed system” to encompass the bed frame and its components, including the mattress, bed assist rails, headboards and footboards, and any accessories to the bed.

The entrapment zones involve the relationship of components controlled by the healthcare facility or individual user. Compliance to the dimensional guidelines for reducing the risk of entrapment is primarily the responsibility of the healthcare facility or the individual user. Anyone having any involvement with hospital bed systems should review and understand the FDA guidelines. These guidelines, titled “Hospital Bed System Dimensional and Assessment Guidance to Reduce Entrapment – Guidance for Industry and FDA Staff,” are available at the FDA website.

⚠ WARNING: Steps to Reduce the Risk of Fires

- Inspect all cords for damage, including the power cord and hand pendant.
- Connect the power cord directly into a wall-mounted outlet in good working order, with no cracks or chips. The plug should fit tightly into the outlet. The ground pin should be intact and secure.
- Do not use power strips, extension cords or multiple-outlet strips. Connect directly to a grounded, wall-mounted outlet.
- Do not cover any power cord with rugs, linens, cloths or other items that may cause heat to build up. Heat may build up or the cord may be damaged.
- Check surrounding equipment for signs of excessive heat or physical damage.
- Inspect the floor beneath the bed for buildup of dust and lint. Ask housekeeping to clean if necessary.
- Inspect the resident’s bed controls, looking for signs of damage where liquids could leak in.
- Test the bed and its controls, including resident lockout features, to ensure the bed can move freely in both directions without damaging any cords.
- Keep linens and clothes away from power sources.
- Tell maintenance staff about any unusual sounds, burning odors or unusual movement of bed.
- If you suspect overheating, follow your facility’s policy for fire safety and move the resident to a safe area if necessary.

Important Precautions

⚠ WARNING: Possible Injury Or Death. This product is intended for use as an adjustable mattress support platform that contours for resident/patient comfort with adjustable height for resident/patient and caregiver convenience. Use of this product in a manner for which it was not designed could result in unproven or unsafe configuration, potentially resulting in injury or death.

⚠ WARNING: Possible Injury. Before adjusting bed, ensure that area under and near bed perimeter is free of people and obstructions. Failure to do so could result in injury or damage to the bed.

⚠ WARNING: Possible Injury. Keep bed in lowest position except when providing care (bathing, clothing changes, etc.). Bed should be at lowest convenient height for entry or exit. Failure to do so could result in injury.

⚠ WARNING: Possible Injury Or Death. Floor locks increase bed stability and resident/patient safety. Floor and caster swivel locks must be locked prior to any resident/patient transfer or resident/patient use of the bed. Failure to do so could result in injury or death.

⚠ WARNING: Possible Injury Or Death. Resident/patients may become entangled in pendant cord. Resident/patients with reduced mental acuity should not be allowed access to pendant. Unsupervised use of pendant could result in injury or death.

⚠ WARNING: Possible Injury Or Death. Bed safe working load is 450 pounds, evenly distributed. This is total weight counting resident/patient, mattress, bedding, and any other equipment or persons likely to be on bed. Do not exceed 450-pound safe working load. Exceeding the safe working load could result in property damage, injury or death.

⚠ WARNING: Possible Injury Or Death. Do not roll bed over abrupt thresholds with resident/patient in bed. Bed is not designed for transporting resident/patient. Transporting resident/patient in the bed could result in injury or death.

⚠ WARNING: Possible Fire Hazard. Use nasal mask or ½ bed tent oxygen administering equipment. Oxygen tent should not extend below mattress support platform. Pendant should not be placed in an oxygen-enriched environment such as an oxygen tent. Use of electrical circuits in an oxygen-enriched environment could result in a fire hazard.

⚠ WARNING: Possible Shock Hazard. Unplug power cord from wall outlet before performing any maintenance, cleaning or service to the bed. Resident/patient should be removed from bed prior to any service being performed on the equipment. Place bed on its side versus working under it. Failure to do so could result in injury or death. **Note:** In case of unexpected movement, unplug bed from any outlet.

⚠ WARNING: Possible Shock Hazard. Position the bed in a manner that allows ease of access to the power cord and wall outlet. Injury may result from improper routing of the power cord. Always follow the proper factory-installed routing configuration. Failure to do so could result in injury or death.

⚠ WARNING: An optimal bed system assessment should be conducted on each resident/patient by a qualified clinician or medical provider to ensure maximum safety of the resident/patient. The assessment should be conducted within the context of, and in compliance with, the state and federal guidelines related to the use of restraints and bed system entrapment guidance, including the Clinical Guidance for the Assessment and Implementation of Side Rails published by the Hospital Bed Safety Workgroup of the U.S. Food and Drug Administration. Further information can be obtained at the following web address: <http://www.fda.gov/MedicalDevices/ProductsandMedicalProcedures/GeneralHospitalDevicesandSupplies/HospitalBeds/default.htm>.

Important Note: When using the mattress system, always ensure that the resident/patient is positioned properly within the confines of the bed. Do not let any extremities protrude over the side or between the bed assist devices when the mattress is being used.

⚠ WARNING: Possible Injury Or Death. Use a mattress that is properly sized to fit mattress support platform, that will remain centered on mattress support platform relative to State and Federal guidelines. Direct Supply recommends the use of a mattress with minimum dimensions of 35" width and 6" height. Length should match mattress support platform. Use of an improperly fitted mattress could result in injury or death. If using Comfort Extension, see Comfort Extension manual for proper mattress size.

⚠ WARNING: Possible Injury Or Death. If a resident/patient's mental or physical condition could lead to resident/patient entrapment, the mattress support platform should be left in the flat position when unattended. Failure to do so could result in injury or death.

⚠ WARNING: Possible Injury Or Death. Use a properly sized mattress in order to minimize the gap between the side of the mattress and assist device. This gap must be small enough to prevent resident/patient from getting his/her head or neck caught in this location. Make sure that raising or lowering bed, or contouring the mattress support platform, does not create any hazardous gaps. Excessive gaps may result in injury or death.

⚠ WARNING: Possible Injury Or Death. Locate mounting brackets for assist devices strictly according to instructions. Gap between head/foot panel and assist device must be small enough or large enough to prevent resident/patient from getting his/her head or neck caught in this location (see specific Assist Device Installation Instructions for more information). If multiple assist devices are used, position each so that gap between them is large enough for trunk and hips to pass through easily. Make sure raising or lowering bed, or contouring mattress support platform does not create any hazardous gaps. Failure to do so could result in injury or death. **Important Note:** Powered air mattress surfaces may pose a risk of entrapment. Prior to use, ensure the therapeutic benefits outweigh the risk of entrapment.

⚠ WARNING: Possible Injury Or Death. Do not use an assist device if any openings within assist device body allow resident/patient to get his/her head or neck lodged within these openings. Use of assist devices with large openings, may result in injury or death.

Important Precautions (cont.)

⚠ WARNING: Possible Injury Or Death. Do not use any Panacea® assist device until you verify it is designed specifically for the Direct Supply Panacea 1000-FLEX bed and it is locked in place. Failure to lock assist devices may result in injury or death.

⚠ WARNING: Possible Injury or Death. NEVER permit more than (1) person in /on the bed at any time. NEVER exceed the weight capacity of this bed. The weight capacity of this bed is 450 lbs (204 kg) including accessories and options (not all accessories and options may be used at the same time). Subtract residents/patients weight from beds capacity 450 lbs (204 kg) to determine allowable weight for mattress, bed panels, accessories, and optional equipment. See Accessories Section for accessory weights.

⚠ WARNING: Possible Injury Or Death. Do not use any replacement parts not manufactured, marketed, or provided by Direct Supply on any Direct Supply Panacea bed. Use of unapproved replacement parts may result in injury or death.

⚠ WARNING: Possible Injury Or Death. If using accessories not manufactured, marketed, or provided by Direct Supply for Direct Supply Panacea beds, consult with the manufacturer for compatibility and limitations prior to use. Failure to do so may result in injury or death.

⚠ CAUTION: Radio transmitting equipment, cellular phones, or similar electronic devices, used in proximity of bed, may affect bed performance.

⚠ CAUTION: Particular precaution must be considered during exposure to strong emission sources such as High Frequency surgical equipment and similar devices. Do not route High Frequency cables on or near device. If in doubt, contact a qualified technician.

NOTE: Electromagnetic disturbances may contribute to the improper operation of medical devices. In the case of a bed, it may affect the performance of the bed movement when a function is selected. Do not place the bed in a location that is known to have high electromagnetic fields.

⚠ WARNING: Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.

⚠ WARNING: Use of accessories, transducers, and cables other than those specified or provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.

⚠ WARNING: Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the Direct Supply Panacea 1000-FLEX bed, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.

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

⚠ CAUTION: This device complies with EMC requirements of IEC 60601-1-2. Radio transmitting equipment, cellular phones or similar electronic devices, used in proximity of bed, may affect bed performance.

⚠ CAUTION: In the absence of line voltage, all bed adjustments can be achieved via an externally available backup battery (Direct Supply Panacea P/N N211).

⚠ WARNING: Possible Shock Hazard. If the bed power cord has a hospital-grade, 3-prong grounding plug, grounding reliability can only be achieved when equipment is connected to an equivalent receptacle marked hospital-grade.

⚠ WARNING: Possible Injury. Sitting on or sliding over the Mattress Side Stop can cause skin injury if the bed mattress compresses to less than 1.5 inches under user's weight.

⚠ WARNING: Possible Injury. Risk of entanglement or injury may occur if mattress used with Mattress Side Stop does not fill the entire width between stops or which compresses to less than 1.5 inches under user's weight.

⚠ CAUTION: The Direct Supply Panacea 1000-FLEX bed is intended for use within institutional healthcare environments 2, 3, and 5 (ie: skilled nursing, transitional care, rehabilitational care, assisted living). Direct Supply recommends compliance to the regulations and guidelines specific to your locality.

Panacea assist devices are designed to be used with specific Panacea bed frames. Once mounted on the appropriate bed frame, assist devices become an integral part of the Panacea bed system. As such, these mounted assist devices, meet the IEC 60601-2-52 Bed Standard, within normal use conditions, of the appropriate bed to which they are mounted.

Assemble, install, utilize, and maintain Panacea Assist Devices as described in their accompanying Panacea User/ Service Manual, which also lists the bed type or model with which these devices may be used.

This product is only one part of your healthcare bed system. Proper combinations of mattress, head/foot panels and assist devices are needed to minimize the risk of entrapment. For more information, call Customer Care, 1-800-634-7328.

There are no known contraindications for this device.

Features and Specifications

Direct Supply Panacea 1000-FLEX Bed Standard Features

80" Mattress Support Platform
8" to 28" Travel Range
Quiet DC Actuators
Welded Tubular Frame
Grid Sleep Surface
Wide Stable Base
SoftTone Frame Color
Heavy-Duty Casters
Locking System:
• Roll-in-Low Lock System
• Roll at any Height Mobility
Baseboard Bumper
Mattress Stops

Electrical Specifications

Power:	120V
Frequency:	60Hz
Current Rating:	4.8 Amps
Classification:	Class I, Type B
Mode of Operation:	10% Maximum Duty Cycle 2 minutes on/18 minutes off
Circuit Protection:	Auto reset current sensors

Environmental Conditions

Operating Conditions:

Ambient Temperature: +10°C to +35°C
Relative Humidity: 30% to 75% Non-Condensing
Atmospheric Pressure: 700 hPa to 1060 hPa
Protected Against Splashing Water IPX4

Storage and Shipping Conditions:

Ambient Temperature: -40°C to +70°C
Relative Humidity: 10% to 100%
Atmospheric Pressure: 500 hPa to 1060 hPa

Locating Your Serial Number

The serial number label is located at the foot end of the bed, on the bed frame under the mattress support deck.

Mechanical Specifications

Description:









Overall Dimensions 86.9"L x 35.0"W x 8.75"H
Weight - Total without Panels 145 lb (65.8 kg)
Weight - Head Frame 67.3 lb (30.5 kg)
Weight - Foot Frame 77.7 lb (35.2 kg)
Maximum Back Angle 65° to horizontal
Maximum Knee Angle 25° to horizontal
Maximum Height Mattress
Support Platform 28" Above Floor
Minimum Height Mattress
Support Platform 8" Above Floor
Safe Working Load 450 lb (204.1 kg)
Maximum Patient Weight 400 lb (181.4 kg)

Dimensions:

Conform To:

AAMI STD ES60601-1
IEC STD 60601-1
IEC STD 60601-2-52
Certified to CSA STD C22.2 # 60601-1

I.D. Label Symbol Definition

-  Attention
-  Consult accompanying documents
-  Safe Working Load
-  Maximum Patient Weight
-  Type B Applied Parts, user controls, mattress, support platform
-  Class II Equipment
-  Protective Earth (ground)
-  Pinch Point

Direct Supply® Panacea® Bed
Model No. PAN1000-FLEX

SAFE WORKING LOAD 450 LBS
120V- 60 Hz ~ 4.8 Amps - 10% MAX DUTY CYCLE
2 MIN ON / 18 MIN OFF

 = 400 LB (181 KG)
 = 450 LB (204 KG)

BED WEIGHT = 150 LB (68 KG)
Medical Equipment Conforms to:
IEC STD 60601-1
IEC STD 60601-2-52
IEC STD 60601-1-2

Type B 
Class I 
Water Protection IPX4


Intertek
4004189

ENGINEERED IN U.S.A.
MADE IN MEXICO

Distributed by:
Direct Supply Manufacturing, Inc.
6699 N. Industrial Road
Milwaukee, WI 53223
1-800-634-7328
11017189 RevA

Installation

⚠ CAUTION: Carefully remove the packaging straps (orange zip ties) before attempting to operate the bed.

⚠ CAUTION: Prior to operation, refer to operating conditions above to ensure bed electronics are within ambient temperature.

Check that all parts of the bed were delivered and inspect for damage.

Parts to Prepare:

- a. Bed Frame
- b. Pendant
- c. End panel(s)

Baseboard Bumper

Recommended Tool: Rubber mallet

1. Place the baseboard bumper as shown (Figure 1).
2. Tap into place with a rubber mallet or press firmly with the sole of your shoe until it locks into place as shown (Figure 2).

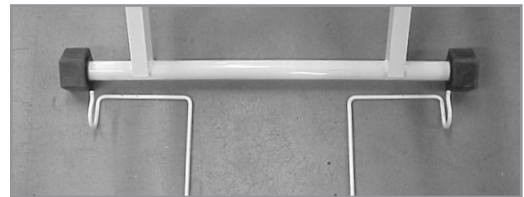


Figure 1

Mattress Stops

⚠ WARNING: Possible Injury. Sitting on, or sliding over, mattress side stop, can cause injury to the skin when used with mattress that compresses to less than 1.5 inches under load.

⚠ WARNING: Possible Injury. Make sure mattress fills the entire width between side stops. Failure to do so could result in injury.



Figure 2

Tools Required: #2 Phillips screwdriver

1. Locate the screws at each corner of the inside tube at the foot end of the screws mattress support platform; one per side (Figure 3).
2. Remove the screws using the #2 Phillips screwdriver; do not discard the screws.
3. Position and insert the mattress stops in the holes provided (Figure 4). Reinstall the screws removed in step 2.
4. Locate the screws in the holes in each corner of the inside tube at the head end of the mattress support platform; one per side.
5. Remove the screws using the #2 Phillips screwdriver; do not discard the screws.
6. Position and insert the mattress stops in the holes provided. Reinstall the screws removed in step 5.



Figure 3



Figure 4

Installation Of Head and Foot Panels

Refer to Bed Panel Installation Sheet for more

Tools required: #2Phillips screwdriver

Head Panel Installation:

1. Head panel has label on back.
2. Lay panel on soft surface front face down.
3. Head panel brackets are longer of two sizes (Figure 5).
4. Install head panel brackets with four screws provided. Bracket offset should face up (Figure 6). Do not tighten until after fitting mounting brackets into bed sockets.
5. Go to final assembly below.

Frame-Mounted Foot Panel Installation:

1. Foot panel does not have label on back. Foot panel will have staff control electronics, if staff control was ordered.
2. Lay panel on soft surface front face down.
3. Foot panel brackets are shorter of two sizes (Figure 5).
4. Install the foot panel brackets with four screws provided. Bracket offset should face up (Figure 6) Do not tighten until after fitting mounting brackets into bed sockets.
5. Go to final assembly below.

Final Assembly Step for Head Panel and Frame-Mounted Foot Panel:

1. Insert head and foot panel as shown with mounting hardware facing head of the bed (Figure 7).
2. Tighten all screws with panels in place.
3. Panels should slip in and out of their sockets easily and securely.

IV Sockets

Direct Supply Panacea 1000-FLEX Bed Platform has four IV sockets as standard equipment. There are two sockets at head end of bed and two at foot end (Figure 8). The IV sockets are used with most ½" IV poles.

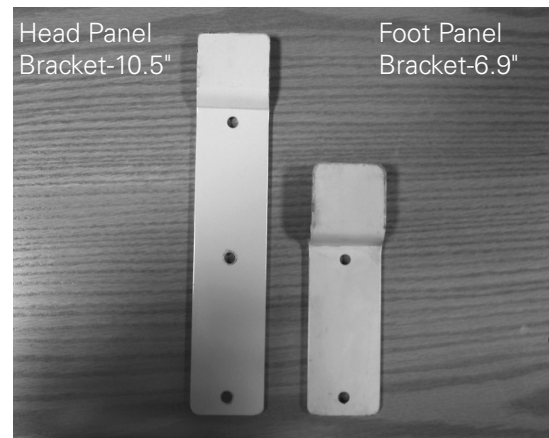


Figure 5



Figure 6



Figure 7



Figure 8

Installation (cont.)

For models with staff control in foot panel - cable install and routing:

1. Raise the bed to a comfortable working height and raise the foot section with the pendant. Then unplug the bed.
2. Locate the two staff control cables. Lay them out side by side with one cable reversed. A male and female connection should be at each end.
3. Unplug the pendant. Route one cable under the control box and plug into pendant port. Route the second cable under the control box and connect to the hand pendant (Figure 9).
4. Route the two cables under the main frame toward the foot end. Zip tie the two cable ends on top of the foot end cross tube (Figure 10).
5. Route cables tightly under the main frame tube. Gather and bundle the excess cables nearest the next cross tube and away from the leg mechanism (Figure 11).
6. Zip tie as shown by arrows (Figure 12).



Figure 11

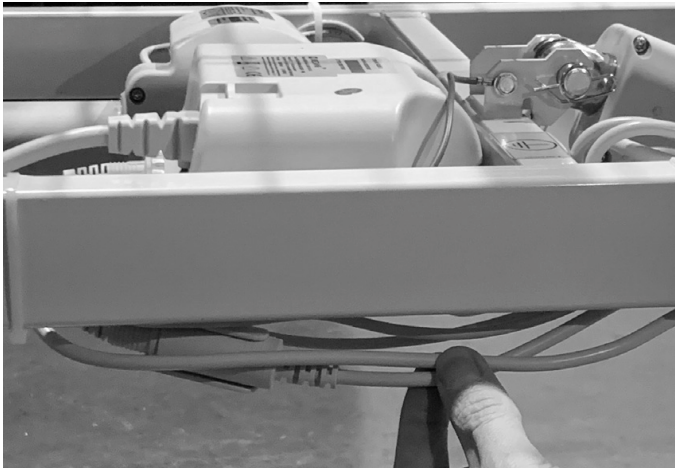


Figure 9



Figure 10

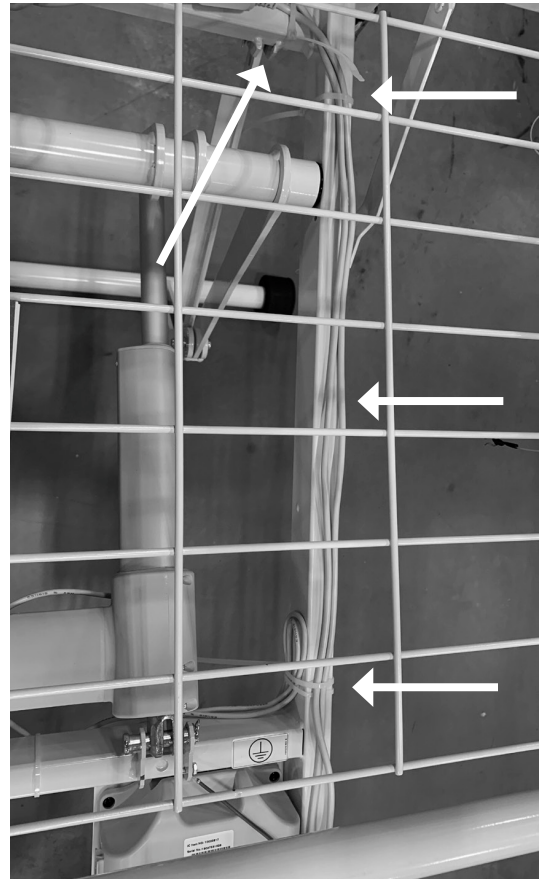


Figure 12

Operation

Your Direct Supply Panacea 1000-FLEX bed comes with a pendant (Figure 13). The pendant allows the patient/resident to operate the bed.

⚠ WARNING: Possible Injury or Death. This bed should not be operated (control the movements of the bed through the control interfaces) by persons who do not have the cognitive skills to understand the information in the owner's manual or cannot understand and perform the proper operation of the bed. This bed should not be used or operated by children.

Staff Control Panel Operation (Optional)

The staff control panel (Figure 14) allows the caregivers to operate the bed from the foot panel without walking to the bedside. The caregiver can also individually lock out all functions, both pendant and staff control.

1. To lock out a function, press "Lock" graphic on the panel. Illuminated amber LED indicates that the function is now locked out.
2. To unlock a function, press the "Unlock" graphic on the panel. Amber LED is no longer illuminated, signaling that the function is now operable. If unlock is pressed all functions unlock, user may need to re-lock a function, if desired.

Staff Control Operation

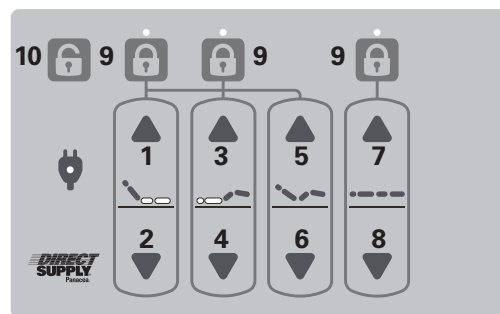


Figure 14

Back Operation

1. Push to raise back
2. Push to lower back

Bed Height Operation

7. Push to raise bed
8. Push to lower bed

Knee Operation

3. Push to raise knee
4. Push to lower knee

Lock Operations

9. Push and hold to change lockout status. The Lock symbol will be illuminated when a function is locked.
10. Push to unlock

Auto Contour Operation

5. Push to raise back and knee
6. Push to lower back and knee

Pendant Operation

Back Operation

1. Push button to raise back
2. Push button to lower back

Knee Operation

3. Push button to raise knee
4. Push button to lower knee

Auto Contour Operation

5. Push button to raise back and knee
6. Push button to lower back and knee

Bed Height Operation

7. Push button to raise bed
8. Push button to lower bed

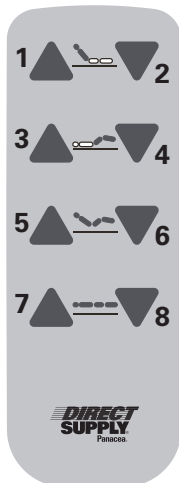


Figure 13

Roll in Low Lock System

1. To keep bed from rolling when in the lowest position, press down on locking lever to lock casters (Figure 15).
2. Standard caster set comes with two locking casters placed at opposing corners of bed.

Mobile Position	Locked Position	Swivel Casters
Low only	Any Height (casters must be locked in Low)	Head & Foot (in Low position only)



Figure 15

⚠ CAUTION: Be careful not to damage power cord when moving or placing bed. After placing bed in service, monitor power cord positioning carefully to prevent damage as you fully operate all bed functions.

⚠ CAUTION: When power cord is not plugged into a wall outlet, place it on sleep surface to prevent it from contacting floor. This will help prevent cord damage when transporting bed.

⚠ CAUTION: If a power cord is damaged, remove bed from service until repairs are performed.

⚠ WARNING: Possible Injury. Before leaving the bed unattended, check that the casters are in the locked position. Never leave an unlocked bed unattended.

⚠ WARNING: Possible Injury. Check that the casters are in the locked position before allowing the resident to enter or exit the bed.

Split Frame Usage

Bed Frame Installation:

After cutting orange zip ties,

1. Identify head frame and foot frame by compatible ID labels on left side (Figure 16).
2. Lay frame halves on soft surface feet side down. Place packing material under head frame to make assembly easier (Figure 17). Ensure the split frame tubes are lined up (Figure 18).



Figure 16

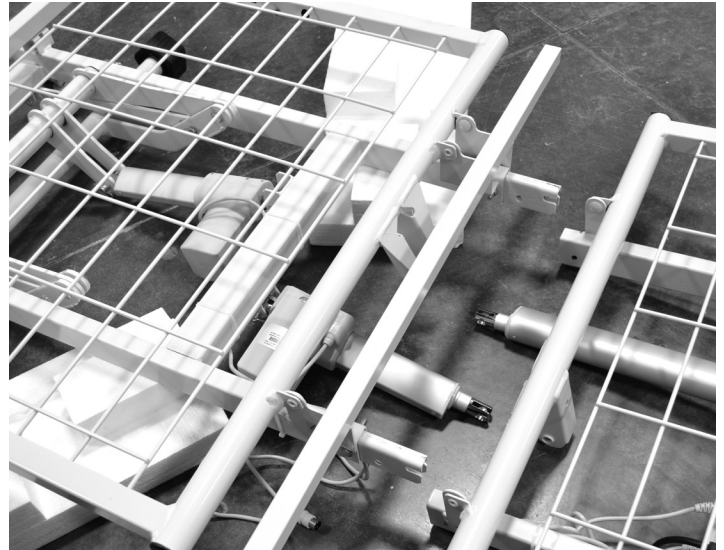


Figure 17



Figure 18

⚠ CAUTION: Equipment Damage. Failure to install the actuators in the proper orientation may cause damage to the actuators.

3. Install the back actuator and knee actuator on the head frame and foot frame as shown using the actuator pin and clip (Figure 19).
4. Insert head frame into foot frame and line up pin hole.
5. Insert safety pin on left and right sides, 2 pins total (Figure 20). Be sure to route the actuator cables through the nearest safety pin bail (Figure 21).



Figure 19



Figure 20

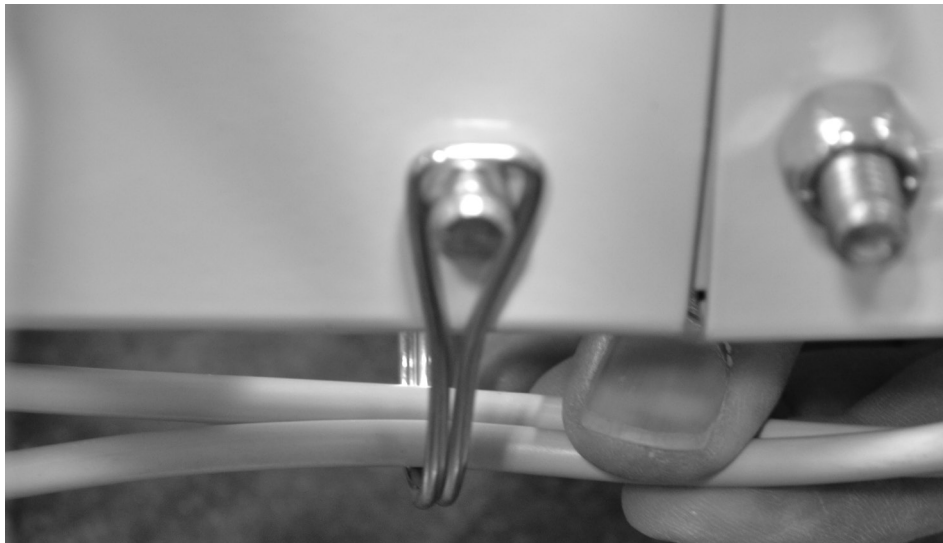


Figure 21

Split Frame Usage *(cont.)*

1. Line up back and knee actuators and insert actuator pin then add clip to lock in place (Figure 22 and 23). Ensure the washers are used on the back actuator (Figure 24).



Figure 22



Figure 23

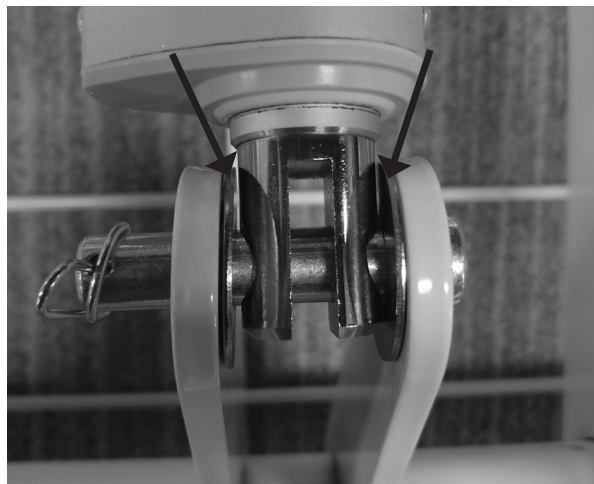


Figure 24

2. Locate back actuator and head end hi-lo cables and route through safety pin bail (Figure 21), then route behind cable bundle (Figure 25 and 26).
3. Insert back actuator cable in port 1 and insert hi-lo actuator head end cable in port 3 (Figure 27).
4. Secure cables with cable clamp (Figure 28).
5. Route power cord through clips provided on underside of bed frame.

Plug-in power cord to power source and raise the bed frame. **Note:** Watch for obstructions through full bed motion.



Figure 25



Figure 26



Figure 27

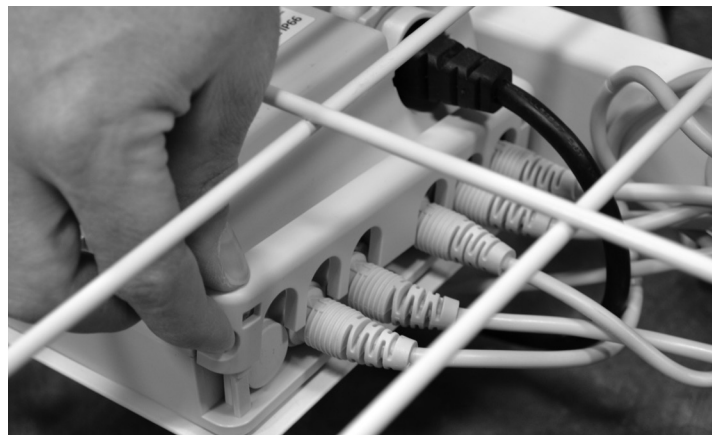


Figure 28

Servicing

Service parts list available upon request. The actuators and control box contain no serviceable items.

Pendant P/N: 11017194

Power Cord Class I P/N: 11016857

⚠ WARNING: Possible Shock Hazard. Unplug power cord from wall outlet before performing any maintenance or service to control box.

⚠ WARNING: Possible High Temperature. Prior to servicing any electrical component ensure the component has cooled to room temperature.

Power Cord

Conduct a yearly inspection of power cord to ensure efficient bed operation.

1. Check power cord to make sure it has not been damaged. If power cord needs replacement due to damage, remove bed from service until power cord has been replaced.

Actuator and Control Box Information

Cable and Port Identification (Figure 29)

1. Back Actuator (Port 1)
2. Knee Actuator (Port 2)
3. Hi-Lo Actuator (Head end - Port 3)
4. Hi-Lo Actuator (Foot end - Port 4)
- H. Pendant (Port H)

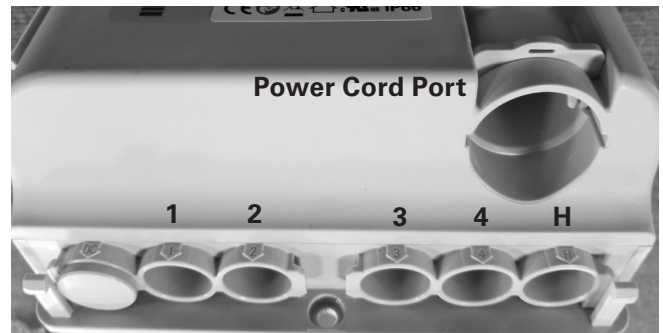


Figure 29



Figure 30

NOTE: The actuators and control box contain no serviceable parts. Overload protection is achieved via current sensing technology, which will automatically reset. If any bed function fails to operate, check to see if bed is overloaded or constrained from movement.

To Remove Control Box

1. Plugs and ports are numbered so they can be easily reinstalled later (see actuator and control box information).
2. Remove cable clamp from control box (Figure 30).
3. Unplug all actuator cables and pendant control plug. Remove ground wire screw, if present.
4. Remove the three fasteners securing the control unit to the mounting plate (Figure 31).
5. To replace control box, reverse these instructions.



Figure 31

Actuator and Control Box Troubleshooting

Any loss of electrical function should be investigated with the following steps:

1. Make sure that all cables are plugged in, including pendant cable and AC power cord.
2. Switch pendant with a new one or one from a bed that is functioning normally.
3. If these steps fail to resolve the problem, call Customer Care at 1-800-634-7328.

To Remove Actuator

Recommended Tools: Screwdriver, Hammer, Punch

1. Identify actuator to be replaced.
2. Tip bed on its side or upside down to replace hi-lo actuators.
3. Mark cable ties locations with tape for later reference. Cut cable ties that hold the motor cables to frame.
4. Actuator is held in place by two pins. Use a screwdriver to remove clip on each pin.
5. Slide pins out of holes. If necessary, use hammer and punch to tap out the pins.
6. You may now replace the actuator(s).
7. To reassemble bed, reverse the previous steps, making note of the following two important items:
 - Assemble all hardware as originally installed.
8. Install cable ties per designated locations marked in step 3 by tape.

To Remove AC Power Cord

Recommended Tools: Small Screwdriver, Masking Tape, Cable Ties

1. Raise bed to maximum height if possible.
2. Unplug power cord from wall.
3. Cut cable ties that hold AC power cord to frame. Tape remaining cables in their original position. It is very important to keep actuator cables routed along frame in original factory-installed positions. If this step is not followed, damage to cables or electric shock may result.

⚠ WARNING: Possible Shock Hazard. Injury may result from improper power cord routing. Always follow proper factory-installed routing configuration. Be sure to check condition of power cord on a regular basis. Do not use damaged or frayed power cords.

4. Disconnect the ground wire, if present.
5. Using a small screwdriver, alternately depress small latch tabs above and below AC inlet receptacle on the control box. Simultaneously, pull gently outward on AC power cord where it connects to control box until plug comes out.
6. Plug replacement cord into control box until it latches.
7. Re-route AC power cord along frame in same position as original routing.
8. Replace cable ties along with cables in their original position and routing to the control box. If this step is not followed, damage to cables or electric shock may result.
9. Ensure ground wire is re-attached, if applicable.

Troubleshooting

Any loss of electrical function should be investigated with the following steps:

Event	Possible Remedies
Bed not responding to pendant control	<ol style="list-style-type: none"> 1. Check all connections are fully inserted with cable secured. Check cables for damage or fraying. 2. Check actuator pins are connected and secure. 3. Check the bed is plugged into power source and control box green light is illuminated 4. Thermal overload condition. This should self-correct in 2 minutes or less. Do not surpass 10% duty cycle (2 min on/ 18 min off). 5. Check if bed is not overloaded and clear of obstructions 6. If these steps fail to resolve the problem, call Technical Support at 1-800-634-7328.
Back sleep surface or Knee surface does not raise or lower	<ol style="list-style-type: none"> 1. Ensure the actuator pins and clips were installed properly during assembly 2. Check the actuator cables are fully inserted into control box in the correct location
Bed moves across the floor at low height	<ol style="list-style-type: none"> 1. Check caster locks are engaged

NOTE: Electrical damage can occur if a non-approved pendant is connected to the electrical system.

To Maximize Service Life

1. Keep the bed clean.
2. Observe bed operation and report any discrepancies or problems to Direct Supply Technical Support at 1-800-634-7328
3. After initial week of use, check all threaded fasteners for looseness, and make sure all pins are in their normal location and fastened securely. Check monthly for loose bolts, nuts, pins and other retaining hardware. Tighten any loose hardware, and contact Direct Supply to order any appropriate service parts.
4. Make sure each inspection includes the underside of the bed frame and mattress support platform. Check joints between sleep surface sections for loose fasteners.

5. Visually inspect the bed frame and accessories for any cracking, bending, or hole enlargement. If found, contact Direct Supply Technical Support at 1-800-634-7328, remove the bed from service immediately, and replace the affected parts.
6. Check wiring for proper connections and damage (fraying, kinking, or deterioration). Report any damage to Direct Supply Technical Support at 1-800-634-7328
7. Check actuators for correct mounting at attachment points and ensure all related pins are mounted securely and properly to the bed frame. Actuators are not serviceable, but are replaceable if required.
8. Lubricate pivot point, pins and bolts as required. Use food grade lubricant, ideally clear synthetic grease with PTFE. Do not use liquids or aerosols as alternatives.
9. Properly stow pendant. Use hook to avoid excessive bending of cable. Avoid dropping or stretching pendant during use to maximize service life.

Cleaning

⚠ CAUTION: Possible damage to electrical parts, and/or shock hazard.

Clean all electrical components (actuators, control box, pendant and cables) on your Direct Supply® bed with a damp, well-wrung cloth. Excess water in or on electrical parts can damage these components.

Do not submerge the pendant in liquid.

Your Direct Supply® bed has a durable, baked-on epoxy finish, easily cleaned with mild solution of antiseptic cleaner and warm water. Read and follow all label instructions on cleaning products.

Other Suggested Cleaners

- 3% hypochlorite or equivalent
- Quaternary cleaners
(active ingredient - ammonium chloride)
- Phenolic cleaners
(active ingredient - o-phenyl phenol)
- Chlorinated bleach solution (5.25% - less than 1 part bleached to 100 parts water)

Maintenance and Inspection Information

Wood veneer surfaces should be maintained by cleaning with furniture polish or lemon oil. Laminate surfaces should be maintained by cleaning with disinfectant spray.

Visually inspect bed and accessories for broken welds or cracks, and check for loose hardware on a monthly basis.

If any broken welds or cracks are found, remove bed from use /service immediately and replace affected part(s).

Visually inspect cable routing for pinched or frayed cables.

Any loose hardware should be tightened.

If you require further assistance, contact Technical Support at 1-800-634-7328.

End of Life Disposal

- Many components of this product may be recycled.
- Please dispose of non-recyclable items properly.

To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources.

Accessories

Accessory Weights

- Panacea Half Rail Assist (pair): 13.7 lbs (6.21 kg)
- Pivoting Assist Handle (pair): 16.0lbs (7.26kg)
- Soft Touch Assist (pair): 24.0lbs (10.89kg)
- Head / Foot Board ~ 14.9 lbs (6.76 kg)
- Mattress ~ 24.0 lbs (10.89 kg)

* Weights may vary dependent upon model, material, and size.

⚠ WARNING: Possible Injury Or Death. Injury or death may result from improper use of bed accessories. Consult with the accessory manufacturer for compatibility, proper installation, and use instructions.

Bed Transport Bar (Figure 32)

1. Bed transport bar is designed to easily move the Panacea 1000-FLEX Bed, particularly when it is lowered onto its casters. **Note:** The Panacea 1000-FLEX Bed is not designed for use as resident/patient transport devices. Prior to use, please read important warnings related to bed transport bar and follow all instructions below.
2. Install bed transport bar according to supplied instructions. If needed, call Technical Support at 1-800-634-7328 for instructions.
3. When using bed transport bar to move beds, always push down and forward on handle. Pushing up or attempting to use transport bar to lift bed, especially when crossing over thresholds, may cause it to disconnect from bed, resulting in loss of control of bed.
4. Take extra care when moving bed (remember, do not move bed while occupied by resident/patient) on any sloped surface. Moving a bed on a sloped surface requires two people, one at each end of the bed. Never use bed transport bar to move bed on a slope that exceeds ANSI and/or ADA requirements for accessibility.



Figure 32

Trapeze And Trapeze Adapter

⚠ WARNING: Possible Injury Or Death. Improper installation of the trapeze adapter could alter or dislodge the head panel position, increasing the risk of injury or suffocation.

⚠ WARNING: Possible Injury Or Death. Follow the manufacturer's directions when installing the trapeze bar. Improper installation of the trapeze bar on the trapeze adapter could cause the trapeze bar to disconnect/collapse or otherwise fail, resulting in injury or death.

⚠ WARNING: Possible Injury Or Death. A minimum of 1-inch clearance between the bottom of the trapeze bar and the floor is required when the bed is in its lowest position. Failure to do so could damage the floor and/or cause the bed to become unstable, resulting in injury or death.

Trapeze (Figure 33)

1. We recommend using the Direct Supply® trapeze with the Direct Supply trapeze adapter.
2. Install the trapeze assembly according to manufacturer's directions included with the trapeze.



Figure 33

Trapeze Adapter (Figure 34)

1. The trapeze adapter is designed to allow attachment of the trapeze system to the Panacea 1000-FLEX Bed. Prior to use, please read important warnings related to this option and follow all instructions below.
2. Install the trapeze adapter according to the supplied instructions. If needed, call Technical Support at 1-800-634-7328 for instructions.
3. Install the trapeze assembly onto the trapeze adapter according to the trapeze manufacturer's instructions.
4. Operate the bed from its highest through lowest positions to ensure proper clearance and operation. Some trapeze systems may not be suitable for use with the Panacea 1000-FLEX Bed, due to its low operating height.
5. Adjustment and use of a trapeze should be in accordance with instructions from a healthcare professional (doctor or therapist).
6. Do not exceed the maximum load condition listed on installation instructions.



Figure 34

Appendix A: Electromagnetic Compatibility (EMC) Information

Manufacturer's Declaration –Electromagnetic Emissions

The Direct Supply Panacea 1000-FLEX bed is intended for use in the electromagnetic environment (for professional healthcare) specified below. The customer or the user of the Direct Supply Panacea 1000-FLEX bed should assure that it is used in such an environment.

Emissions test	Compliance	Electromagnetic environment-guidance (for professional healthcare environment)
RF emissions CISPR 11	Group 1	The Direct Supply Panacea 1000-FLEX bed uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment. The Direct Supply Panacea 1000-FLEX bed 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	Class A	
Harmonic emissions IEC 61000-3-2	Class A	
Voltage fluctuations / flicker emissions IEC 61000-3-3	Compliance	

Recommended separation distance between portable and mobile RF communications equipment and the Direct Supply Panacea 1000-FLEX Bed

The Direct Supply Panacea 1000-FLEX bed is intended for use in an electromagnetic environment (for professional healthcare) in which radiated RF disturbances are controlled. The customer or the user of the Direct Supply Panacea 1000-FLEX bed can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the Direct Supply Panacea 1000-FLEX bed as recommended below, according to the maximum output power of the communications equipment.

Rated maximum output power of transmitter W	Separation distance according to frequency of transmitter m		
	150 kHz to 80 MHz $d=1,2\sqrt{P}$	80 MHz to 800 MHz $d=1,2\sqrt{P}$	800 MHz to 2,7 GHz $d=2,3\sqrt{P}$
0,01	0,12	0,12	0,23
0,1	0,38	0,38	0,73
1	1,2	1,2	2,3
10	3,8	3,8	7,3
100	12	12	23

For transmitters rated at a maximum output power not listed above, the recommended separation distance d in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.

Note 1: At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

Note 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects, and people.

Guidance and Manufacturer's Declaration - Electromagnetic Immunity:


The Direct Supply Panacea 1000-FLEX bed is intended for use in the electromagnetic environment (for professional healthcare) specified below. The customer or the user of the Direct Supply Panacea 1000-FLEX bed should assure that it is used in such an environment.

Immunity Test	IEC 60601 Test Level	Compliance Level	Electromagnetic Environment-Guidance (for professional healthcare environment)
Electrostatic discharge (ESD) IEC 61000-4-2	Contact: ± 8 kV Air: ± 2 kV, ± 4 kV, ± 8 kV, ± 15 kV	Contact: ± 8 kV Air: ± 2 kV, ± 4 kV, ± 8 kV, ± 15 kV	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%.
Electrical fast transient/burst IEC 61000-4-4	± 2 kV for power supply lines ± 1 kV for input/output lines	± 2 kV for power supply lines Not applicable	Mains power quality should be that of a typical professional healthcare environment.
Surge IEC 61000-4-5	± 0.5 kV, ± 1 kV line(s) to line(s) ± 0.5 kV, ± 1 kV, ± 2 kV line(s) to earth	± 0.5 kV, ± 1 kV line(s) to line(s) ± 0.5 kV, ± 1 kV, ± 2 kV line(s) to earth	Mains power quality should be that of a typical professional healthcare environment.
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	Voltage Dips: 0% U_T ; 0,5 cycle 0% U_T ; 1 cycle 70% U_T ; 25/30 cycles Voltage Interruptions: 0% U_T ; 250/300 cycle	Voltage Dips: 0% U_T ; 0,5 cycle 0% U_T ; 1 cycle 70% U_T ; 25 cycles Voltage Interruptions: 0% U_T ; 250 cycle	Mains power quality should be that of a typical professional healthcare environment. If the user of the Direct Supply Panacea 1000-FLEX bed requires continued operation during power mains interruptions, it is recommended that the Direct Supply Panacea 1000-FLEX bed be powered from an uninterruptible power supply or a battery.
Power frequency (50/60 Hz) Magnetic Field IEC 61000-4-8	30 A/m 50 Hz or 60 Hz	30 A/m 50 Hz / 60 Hz	The Direct Supply Panacea 1000-FLEX bed power frequency magnetic fields should be at levels characteristic of a typical location in a typical professional healthcare environment.
Note: U_T is the a.c. mains voltage prior to application of the test level.			

Appendix A: Electromagnetic Compatibility (EMC) Information *(cont.)*

Guidance and Manufacturer's Declaration – Electromagnetic Immunity

The Direct Supply Panacea 1000-FLEX bed is intended for use in the electromagnetic environment (for professional healthcare) specified below. The customer or the user of the Direct Supply Panacea 1000-FLEX bed should assure that it is used in such and environment.

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment – guidance
Conducted RF IEC 61000-4-6	3 Vrms: 0,15 MHz – 80 MHz 6 Vrms: in ISM bands between 0,15 MHz – 80 MHz 80% AM at 1 kHz	3 Vrms: 0,15 MHz – 80 MHz 6 Vrms: in ISM bands between 0,15 MHz – 80 MHz 80% AM at 1 kHz	Portable and mobile RF communications equipment should be used no closer to any part of the Direct Supply Panacea 1000-FLEX bed including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.
Radiated RF IEC 61000-4-3	3 V/m 80 MHz – 2,7 GHz 80% AM at 1 kHz	3 V/m 80 MHz – 2,7 GHz 80% AM at 1 kHz	<p>Recommended separation distance</p> $d = 1,2\sqrt{P}$ $d = 1,2\sqrt{P} \text{ 80 MHz to 800 MHz}$ $d = 2,3\sqrt{P} \text{ 800 MHz to 2,7 GHz}$ <p>Where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in meters (m).</p> <p>Interference may occur in the vicinity of equipment marked with the following symbol:</p> 

Note 1: At 80 MHz and 800 MHz, the higher frequency range applies.

Note 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects, and people.

Direct Supply Warranty Program

for Direct Supply Panacea 1000-FLEX Bed Frame

We offer to you, as the original purchaser, a warranty for the Panacea 1000-FLEX Bed. Our warranty applies for the limited warranty period stated below. If any device or device part listed below is defective in material or workmanship during the applicable limited warranty period, we will repair or replace it at our cost. Please note that the decision to repair or replace a device or device part will be at our discretion. Our warranty applies only if the device is properly maintained by the original purchaser for normal, indoor use and does not cover normal wear and tear, modification of the device or damage caused by abuse, improper use, failure to maintain, use which exceeds the published device limitations or the combination of any device with another product. In addition, our warranty does not cover fading, colorfastness, stains, spills or exposure to chemicals, odors, heat or light. In certain cases, we may provide you repair or adjustment instructions and/or replacement parts, and ask you to perform a repair or adjustment or replace a defective part.

Our warranty gives you specific legal rights, and you may also have other rights, which vary from state to state. Please note that our limited warranty period begins when we ship the device to you. The limited warranty period and our obligations under the warranty end once you transfer the device to someone else, or at the end of the applicable limited warranty period identified below, whichever is earlier.

Warranty Period (Parts Only)	
Welds	15 years
Mechanical Components	3 years
Electronics	3 years
Decks and Frames	10 years

Anticipated Usable Device Life (10 years) is based on normal use with proper maintenance, cleaning and storage. You should still inspect, monitor and care for the device as described in this guide, as the device may need to be replaced sooner than anticipated in particular situations.

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