Baxter

Hillrom pro+

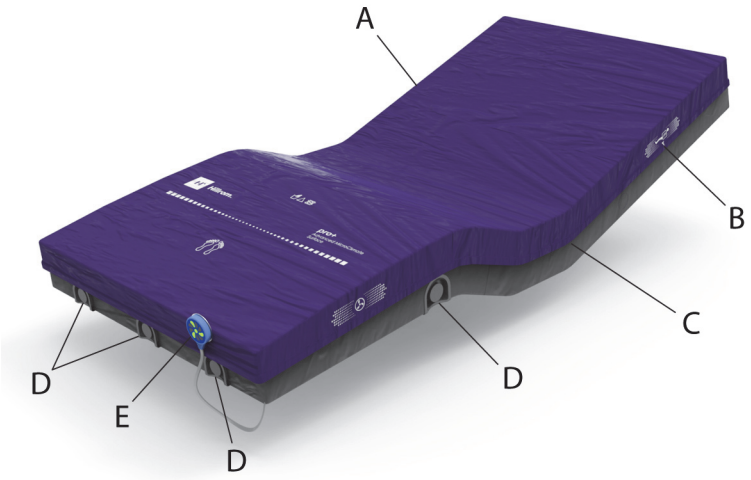
SURFACE

Instructions for Use

Product No. P7923,
P7924, P3255, and P006800

209196 REV 8

QUICK VIEW LIST OF FEATURES



Item	Feature	Page
A	Top cover	10
B	X-ray sleeve (optional)	12
C	Bottom cover	10
D	Microclimate Management (**MCM**) components (blower inlet and outlet vents)	10
E	**MCM** status indicator (non-integrated **pro+** surface only)	13
(not shown)*	Power cord	

NOTE:
*See specific surface section for power cord type.

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This manual (209196) was originally released and supplied in English. For a list of available translations, contact Baxter Technical Support.

Product images and labels are for illustrative purposes only. Actual product and label may vary.

Eighth Edition, 2024-05

First Printing, 2020

Replace this manual (209196) if it is damaged and/or can not be read.

For product support or to order additional copies of this manual (209196), contact your distributor, local Baxter representative, or go to hillrom.com.

Reference Documents

Hillrom pro+ *Mattress Service Manual* (209197)

Hillrom Centrella *Smart+ Bed Instructions for Use* (193587)

NOTES:

Table of Contents

INTENDED USE

The **Hillrom pro+** surface is intended for patient support and for the prevention and/or treatment of pressure injuries.

NOTE:
The **pro+** surface is intended for use in healthcare environments and is capable of being used with a broad patient population as determined appropriate by the caregiver or institution. The surface supports patients weighing between 70 lb (32 kg) and 500 lb (227 kg).

INTRODUCTION

The **pro+** surface (mattress) with **Advanced Microclimate** Technology (AMT) uses a non-powered system of intake and output valves to provide weight-based pressure redistribution whenever a patient moves or is repositioned.

This manual contains information necessary for normal operation of the **pro+** surface. Before you operate the surface, make sure you read and understand in detail the contents of this manual. It is important that you read and strictly obey the aspects of safety contained in this manual.

The **pro+** surface can be used on the bed frames shown below. To determine if the **pro+** surface can be used on a hospital bed not listed, contact Baxter.

- **Hillrom Centrella** Smart+ Bed (36" (91 cm) and 40" (102 cm) wide)
- **Hillrom VersaCare** Bed
- **Hillrom Advanta** 2 Bed
- **Hillrom CareAssist** Bed
- **Hillrom 900** Bed, models LI900B2 (with split rails only) and LI900B3 (with split rails only)

WARNING:

Warning—It is the user's responsibility to make sure the occupant is safe if the surface is used on a bed frame not approved by Baxter. Failure to do so could cause injury or equipment damage.

For use on a bed frame not approved by Baxter, evaluate the bed frame with the **pro+** surface installed to make sure it is safe for patient use.

NOTE:
The **CareAssist** Bed supports a patient weight up to 400 lb (181 kg) and the **CareAssist** ES Bed supports a patient weight up to 500 lb (227 kg).

To identify which version of **pro+** surface you have, look at the model and serial number label. The label is on the right side at the foot-end of the top and bottom covers.

Any reference to a side of the bed or **pro+** surface is from the patient's view lying in the bed on his or her back.

NOTE:
Throughout this manual the wall outlet for electric AC power (mains power), we identify as AC power.

SAFETY INFORMATION

WARNING:
Obey these safety instructions to help prevent injury and/or equipment damage:

- **Warning**—Read and understand all warnings in this manual and on the surface itself prior to use with a patient.
- **Warning**—Follow the product manufacturer's instructions.
- **Warning**—The safe working load of the **pro+** surface may be more than the safe working load of the bed frame. Injury or equipment damage could occur if you exceed the safe working load of the bed frame.
- **Warning**—The total weight of the **pro+** surface, patient, and accessories must not exceed the safe working load of the bed frame.
- **Warning**—The surface may not be effective for patients outside of the declared intended use.

WARNING:

(Warnings continued) Obey these safety instructions to help prevent injury and/or equipment damage:

- **Warning**—Do not unzip the **pro+** surface while the surface is receiving AC power. Electrical shock could occur.
- **Warning—**The potential for electrical shock exists with electrical equipment. Failure to follow facility protocols may cause death or serious injury.
- **Warning**—To avoid risk of electric shock, this equipment must only be connected to a supply mains with protective earth.
- **Warning**—Make sure to use a correctly grounded, three-prong, 120 V outlet (NEMA 5-15R or NEMA 5-200R outlet, rated 125 V AC, 15 A or 125 V AC, 20 A, respectively). Failure to do so could cause personal injury, fire, or damage to the equipment or facility wiring.
- **Warning**—Evaluate patients for entrapment risk according to facility protocol and/or healthcare provider directives, and monitor patients appropriately. Make sure all siderails are fully latched when in the raised position. Failure to do either of these could cause serious injury or death.
- **Warning**—The **pro+** surface is not a substitute for good nursing practices. The surface should be used in conjunction with good assessment and protocol.
- **Warning**—Take care to minimize the risk of tripping over the power cords by carefully locating them from the bed to their power source. Failure to do so could lead to a trip hazard and/or electrical shock.
- **Warning**—Make sure that there are no foreign objects in the patient zone of the surface.
- **Warning**—The **pro+** surface is intended for patients who are within the specified weight limit of 70 lb (32 kg) to 500 lb (227 kg). Use of the **pro+** surface with a patient whose weight is outside of the specified limits may cause loss of therapeutic value and/or damage to the surface.
- **Warning**—The **pro+** surface may not be effective for patients when the surface is used past its design life.

WARNING:

(Warnings continued) Obey these safety instructions to help prevent injury and/or equipment damage:

- **Warning**—To help prevent the risk of hospital bed fires, make sure facility persons follow the safety tips in the *FDA Public Health Notification: Safety Tips for mattress Preventing Hospital Bed Fires.* (US only)
- **Warning**—Connect the power cord to hospital grade receptacles only.
- **Warning**—Do not use the surface in an oxygen rich environment or with oxygen tents.
- **Warning**—Incorrect use or handling of the power cord may cause damage to the power cord. If damage has occurred to the power cord or any of its components, immediately remove the surface from service, and contact Baxter.
- **Warning**—Do not operate the surface in the presence of flammable gas or vapors.
- **Warning**—Do not operate the surface in the presence of flammable anesthetics or nitrous oxide.
- **Warning**—Before maintenance or service is done on the surface, make sure to unplug the surface and remove the patient or fully remove the surface from use.
- **Warning**—Do not transfer the patient from one bed frame to another using the surface with the patient on it.
- **Warning**—Use a minimum of two caregivers to transfer a patient on to the surface.
- **Warning**—When you put a patient on to the **pro+** surface, make sure that the opposite siderails are raised or that another caregiver is present on the opposite side.
- **Warning**—Do not connect the power cord to an extension cord or multiple outlet strip. There is a risk of overheating and fire.
- **Warning**—This product can expose you to chemicals including Cadmium, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to P65Warnings.ca.gov.
- **Warning**—Operate the bed within the stated environmental conditions; see “Environmental Conditions for Use” on page 98.

WARNING:

(Warnings continued) Obey these safety instructions to help prevent injury and/or equipment damage:

- **Warning**—Connect only items that have been specified as parts of the device or compatible with the device.
- **Warning**—The surface weighs approximately 50 lb (22.7 kg). Lift and move the surface with the handles. Do not twist, and seek assistance when necessary.

SYMBOLS

Document Symbols

This manual contains different typefaces and symbols to make the content easier to read and understand:

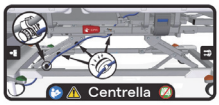
- Standard text—used for regular data.
- **Boldface text**—emphasizes a word, phrase, or trademarks.
- **NOTE:**—sets apart special data or important instruction clarification.
- WARNING or CAUTION

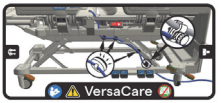
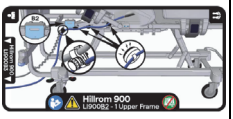
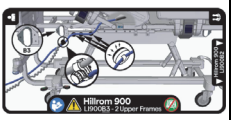
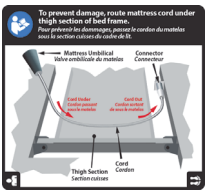
Warning— identifies situations or actions that may have an effect on patient or user safety. To ignore a warning could cause patient or user injury.

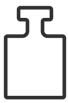
Caution—identifies special procedures or precautions that persons must obey to help prevent equipment damage.

Product Symbols

These symbols **may or may not** be on your configuration of the surface.

Symbol	Description
	**Centrella** Smart+ Bed—shows the routing and attachment locations for the surface power cord on the bed frame

Symbol	Description
	**CareAssist** Bed and **Advanta** 2 Bed— shows the routing and attachment locations for the surface power cord on the bed frame
	**VersaCare** Bed (P3255A01 and P3255A02)—shows the routing and attachment locations for the surface (long) power cord on the bed frame
	**VersaCare** Bed (P3255A03 and P3255A04)—shows the routing and attachment locations for the surface (short) power cord on the bed frame
	**900** Bed (LI900B2)—shows the routing and attachment locations for the surface power cord on the bed frame
	**900** Bed (LI900B3)—shows the routing and attachment locations for the surface power cord on the bed frame
	**Centrella** Smart+ Bed (integrated)—shows the routing of the surface cable on the bed frame
	Surface foot-end flap for the **Centrella** Bed—shows to put the footboard posts through the surface flap at the foot end of the surface
	X-ray cassette sleeve
	Magnet location

Symbol	Description
	WARNING (yellow and black)
	CAUTION (white and black)
	Must consult accompanying documents
	Hand wash
	Bleach when needed
	Do not tumble dry
	Type B applied part according to IEC 60601-1
IPX4	According to IEC 60529, Rating for protection against fluid ingress and identified as equipment that is protected against spraying and splashing water
	MEDICAL—GENERAL MEDICAL EQUIPMENT AS TO ELECTRICAL SHOCK, FIRE AND MECHANICAL HAZARDS ONLY IN ACCORDANCE WITH ANSI/AAMI ES60601-1, IEC 60601-1, IEC 60601-1-8, AND CAN/CSA C22.2 NO 60601-1
	The surface safe working load is 227 kg (500 lb).

Symbol	Description
	Manufacturer
	Manufacture date
	Medical Device
	Serial Number
	Do not throw away— indicates the need to recycle the item in accordance with local regulations.
	Do not use with Oxygen Tents (can be green or blue)

ACRONYMS

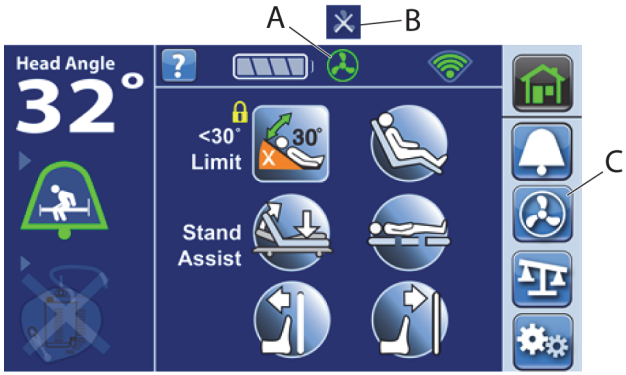
Acronym	Description
AMT	**Advanced Microclimate** Technology
MCM	Microclimate Management
GCI	**Graphical Caregiver Interface**

MCM Status Indicator

Symbol	Description
	**MCM** status indicator OFF
	**MCM** status indicator ON
	**MCM** status indicator ERROR

GRAPHICAL CAREGIVER INTERFACE (GCI) (Touchscreen)

These symbols only apply to the **pro+** surface powered by the **Centrella** Smart+ Bed. Refer to the ***Hillrom Centrella*** *Smart+ Bed Instructions for Use* (193587) for additional information about the GCI.



Item	Feature	Page
A	**MCM** status indicator ON indicator	13
B	**MCM** status indicator OFF indicator	13
C	**MCM** status indicator Menu Control	13

SURFACE FEATURES

Top and Bottom Covers

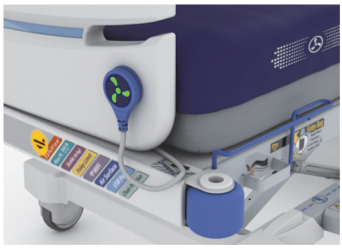
The surface top and bottom covers protect the internal components and are fluid resistant.

Foot Zone

The foot zone has a tapered foot section to help reduce pressure on the patient's heels.

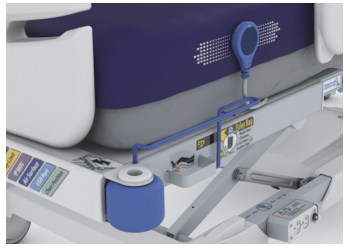
MCM Status Indicator

Capital Surface—The **pro+** non-integrated surface has a status indicator that attaches to its mount on the footboard.



Rental Surface—The **pro+** non-integrated surface has a status indicator that attaches to its mount on the strap that is attached to the footboard.

To store the status indicator during transport or cleaning/disinfection of the surface, put the status indicator in its storage location on either side of the surface.

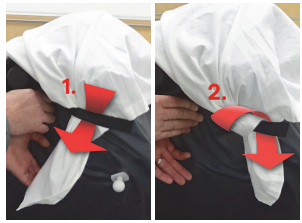


Linen Holders

On the bottom of the surface, each corner has a strap to help retain flat sheets.

NOTE:
The **VersaCare pro+** surface does not have linen holders.

To Install



1. Put the sheet through the linen holder.
2. Wrap the sheet over and back through the linen holder.
3. Repeat for each corner.
4. Make sure the sheet is not too tight as it may impact the pressure redistribution performance.

Surface Handles

The surface has two handles on each side of the surface. The surface handles are located on the bottom or the sides of the surface.

The handles for the **Centrella**, **Advanta** 2 and **CareAssist pro+** surfaces (P7923 and P7924) are on the bottom of the surface.

The handles for the **VersaCare** and **900 pro+** surfaces (P3255 and P006800) are on the sides of the surface.

X-Ray Sleeve Option

The x-ray sleeve permits a 17" x 14" (43.2 cm x 35.6 cm) x-ray cassette to be inserted from either side of the bottom cover.

To use the sleeve, do as follows:

1. Make sure the brake is set on the bed.
2. Make sure the bed is plugged into AC power.
3. Make sure the head of the bed is at least 30°. You may adjust this position for patient comfort.
4. Pull the sheet away from the edge of the surface.
5. Lift the top cover flap to access the sleeve zipper.
6. Unzip the sleeve.

CAUTION:

Caution—The sharp edges of an x-ray cassette can damage the surface. Use care when you use an x-ray cassette with the surface.

7. Make sure the x-ray cassette is in a plastic bag or similar covering.
8. Insert the x-ray cassette.
9. Remove the x-ray cassette when finished.

10. Zip the x-ray sleeve to close and make sure the x-ray sleeve zippers are closed on both sides of the surface.
11. Make sure to lower the top cover flaps.

Advanced Microclimate Technology

The **pro+** surface uses **MCM** status indicator. The **MCM** status indicator feature operates continuously and helps decrease localized heat and moisture buildup that occurs between the patient and the surface.

To turn off the **MCM** status indicator function for the non-integrated surface, unplug the surface cord from AC power.

pro+ Surface MCM Status Indicator ON/OFF

Non-Integrated pro+ Surfaces

- ON—Plug the bed into the power source to turn on the **MCM** status indicator.
- OFF—Unplug the bed from the power source to turn off the **MCM** status indicator.

Integrated pro+ Surfaces for the CENTRELLA Smart+ Bed

The GCI screen is either on the left-head siderail or both head siderails. Through the **MCM** status indicator menu control, you can—

- Turn on the **MCM** status indicator
- Turn on the **MCM** status indicator and hide the **MCM** status indicator menu control so that the **MCM** status indicator is always on
- Turn Off the **MCM** status indicator

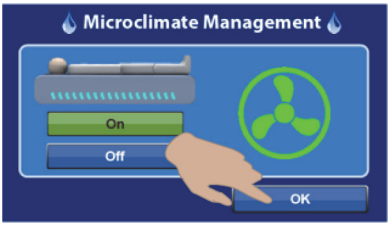
NOTE:
When a new patient is admitted to the bed, zeroing the bed for the New Patient will reset the **MCM** status indicator to ON. See the bed's instructions for use.

Turn On the MCM Status Indicator

a. Press the **MCM** status indicator menu control.

b. Press **On**.

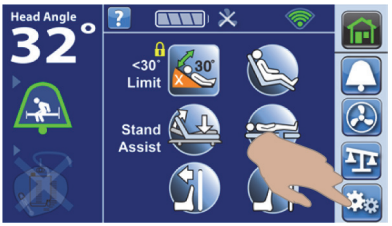
c. Press **OK**.



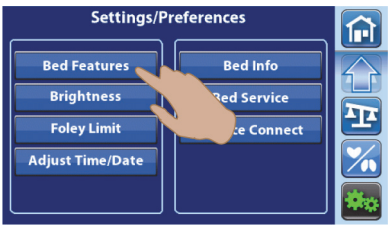
Set the MCM Status Indicator to Always On

If the facility requests that the **MCM** status indicator is always on, do as follows:

1. Press the **Settings** menu control.

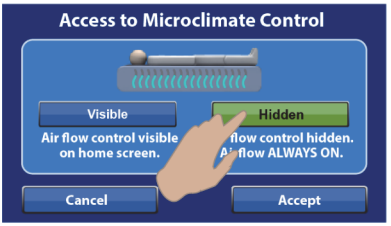


2. Press **Bed Features**.



3. Press **Mattress Features**.

4. Press **Hidden**.



5. Press **Accept**.

NOTE:
If the **MCM** status indicator menu control is set to "Hidden", the control will not show in the menu scroll bar.

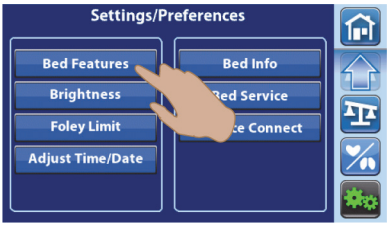
Turn Off the MCM Status Indicator

1. Press the **MCM** status indicator menu control.

If the **MCM** status indicator menu control does not show in the menu, do these:

a. Press the **Settings** menu control.

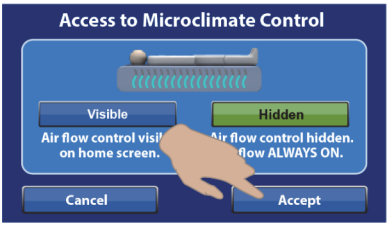
b. Press **Bed Features**.



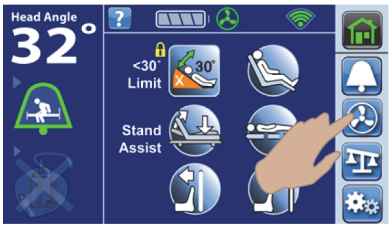
c. Press **Mattress Features**.

d. Press **Visible**.

e. Press **Accept**.



2. Press the **MCM** status indicator menu control.



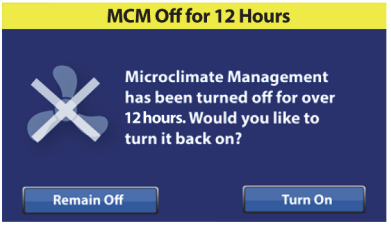
3. Press **Off**.

4. Press **OK**.

At the Home screen, the "X" **MCM** indicator shows, and the indicator is no longer green.

To Troubleshoot Messages

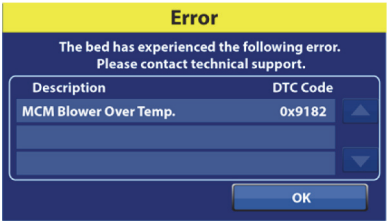
MCM Off for 12 Hours (**MCM** status indicator problem)—this message shows when the **MCM** status indicator has been turned off for over 12 hours. Press **Remain Off** or **Turn On** for the **MCM** status indicator feature.



WARNING:

Warning—Failure to correct the error in a timely manner may cause patient injury.

Error (technical problem)—this message shows when the **MCM** blower does not operate as intended. Contact your authorized maintenance persons.



INSTALLATION

The internal temperature of the **pro+** surface will affect the firmness of the surface. Allow the surface to normalize to room temperature before you put the surface in use.

WARNING:

To help prevent injury and/or equipment damage, obey these **warnings**:

- **Warning**—Failure to properly assess the fit of the surface relative to the frame and siderails could result in an entrapment risk that could cause serious injury or death.
- **Warning**—It is the user's responsibility to make sure the patient is safe if the surface is used on a frame **not** approved by Baxter.
- **Warning**—Make sure that hands, arms, legs, and feet are not under the bed or between the sleep deck sections as they move.

NOTES:

- For the latest list of approved bed frames, contact your local Baxter representative.
- Any reference to a side of the bed or surface is from the patient's view lying in the bed on his or her back.

Go to the applicable section for your installation:

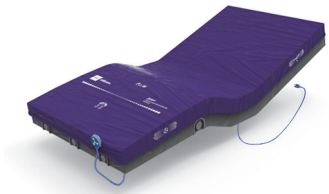
- "CENTRELLA Smart+ Bed" on page 19
- "VERSACARE Bed—pro+ Surface Installation Instructions" on page 36
- "CAREASSIST and ADVANTA 2 Beds" on page 57
- "900 Beds" on page 66

CENTRELLA SMART+ BED

There are two versions of the **pro+** surface for the **Centrella** Smart+ Bed: non-integrated and integrated.

1. Determine which version of the surface you have (see below).

Non-integrated (P7924)
(has the status indicator and power cord)



Integrated (P7923)
(powered by the bed)

2. Go to the applicable section for your surface:

- "CENTRELLA Smart+ Bed—Non-Integrated pro+ Surface" on page 20
- "Status Indicator light" on page 30

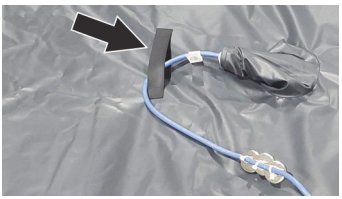
1.1 CENTRELLA Smart+ Bed—Non-Integrated pro+ Surface

Tools: T10 **Torx** screwdriver

P7924A01 **pro+** Surface with x-ray, 36" (91 cm)
or
P7924A02 **pro+** Surface with x-ray, 40" (102 cm)
or
P7924A03 **pro+** Surface without x-ray, 36" (91 cm)
or
P7924A04 **pro+** Surface without x-ray, 40" (102 cm)
or
P7924A10 **pro+** Surface with x-ray, Aus/NZ 36" (91 cm)
or
P7924A09 **pro+** Surface with x-ray, Aus/NZ 40" (102 cm)

Step 1: Setup

1. Make sure the brake is set on the bed.
2. Plug the bed into AC power.
3. Adjust the bed to the flat position.
4. Make sure the foot section is extended.
5. Put the bed in the lowest position.
6. Lower the siderails.
7. Remove the footboard.
8. If applicable, remove the surface (see the bed's service manual).
9. Lift the **pro+** surface to make sure the surface power cord is routed through the strap on the bottom cover.



WARNING:

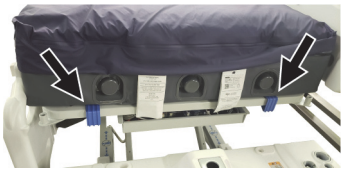
Warning—The surface weighs approximately 50 lb (22.7 kg). Lift and move the surface with the handles. Do not twist, and seek assistance when necessary. Failure to do so could cause injury or equipment damage.

10. Use the surface handles on the bottom of the surface to lift and install the surface on the bed. Make sure the logo side is up and at the foot end of the bed.

WARNING:

Warning—Make sure the surface is installed correctly and is securely attached to the bed. Failure to do so could cause the bed not to articulate as intended. Injury or equipment damage could occur.

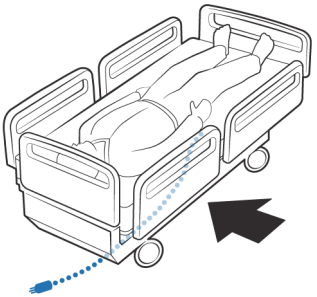
11. Attach the surface hooks to the head end of the bed.



12. Put the bed in this configuration:
    - **Bed** in the **highest** position
    - **Knee** in the **highest** position
    - **Head** in the **highest** position

Step 2: Route the Surface Power Cord

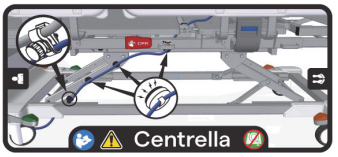
Warning—Failure to route the surface power cord correctly can create a tripping hazard and/or the cord to be pinched during bed functions. Injury and/or equipment damage could occur.



The surface power cord is routed along the patient-right side of the **Centrella** Smart+ Bed.

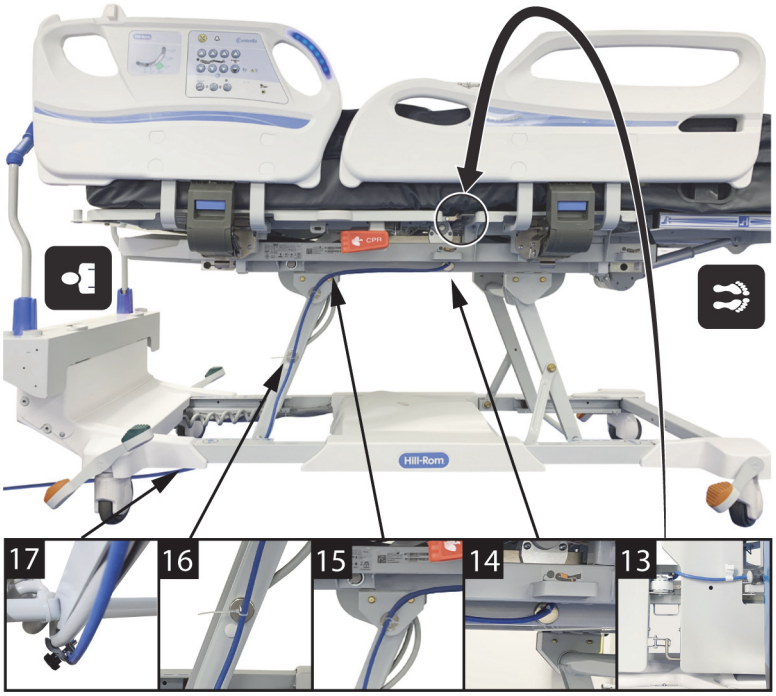
NOTES:

- Do **not** use cable ties to attach the power cord to the bed.
- A label on the surface power cord shows the routing and the attachment locations for the surface power cord on the bed frame.

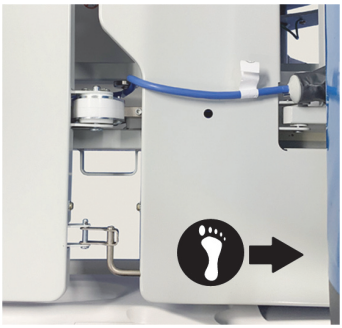


The surface power cord has magnets installed on the cord. The power cord is routed along the patient-right side of the bed to the head end of the bed. Below is an overall view of the cord routing; the numbered detail views correlate with Step 13 through Step 17 that follow.

CENTRELLA Smart+ Bed—Surface Power Cord Routing



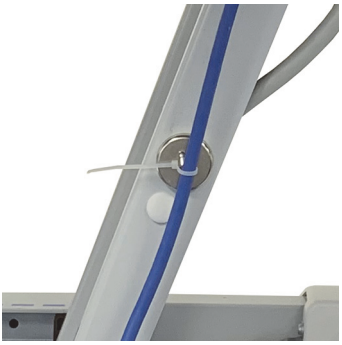
13. Route the power cord between the head and seat sections on the right-side of the bed, inside of the head pivot.



14. Attach one cord magnet to the upper frame, aligned with the patient restraint bracket.

15. Attach one cord magnet to the upper frame, under the head section on the triangle bracket.

16. Attach one cord magnet to the lift arm, above the plastic insert.

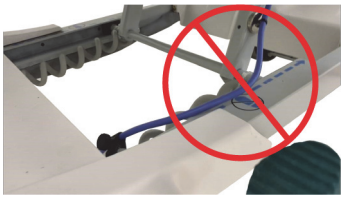


17. Put the bed power cord into the cord clamp that is on the surface power cord. Use the knob to tighten the cord clamp.

    Gently pull on the bed power cord to make sure the cord clamp is attached to the bed power cord.

CAUTION:

Caution—To help prevent equipment damage, make sure the power cord is routed under the lift arm weldment.



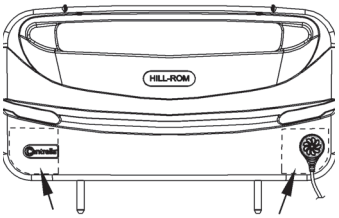
18. Route the power cord under the lift arm weldment and between the head-end casters.
19. Go to the applicable section:
    - "Step 3A: Install the MCM Status Indicator Mounting Kit (Capital Only)" on page 25

    or

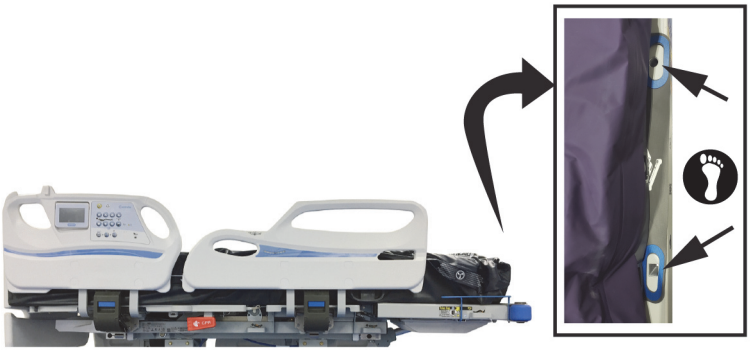
    - "Step 3B: Install the MCM Status Indicator Mounting Kit (Rental Only)" on page 27.

Step 3A: Install the MCM Status Indicator Mounting Kit (Capital Only)

The mount for the **MCM** status indicator is to be installed on the outside of the footboard, on either the bottom-left or bottom-right.



20. Lift the foot end of the surface.
21. Align the holes of the foot end flap with the footboard sockets in the bed (see below).



22. Align the footboard posts to go through the holes on the flap, and install the footboard.

    NOTE:
    Make sure that the status indicator cord is not between the installed footboard and bed.

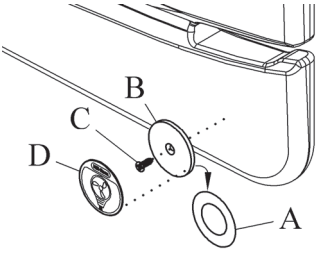
23. Make sure the status indicator can reach the mount location before you start to install the mount assembly.

    WARNING:

    Warning—Alcohol-based cleaners are flammable and toxic to skin, eyes, and respiratory tract. Do not use near an open flame. Do not use in confined areas. Injury could occur.

24. On the outside of the footboard, use the alcohol-based cleaner to clean the area where the status indicator mount is to be installed (this includes new footboards). Let the area dry.

25. Remove the adhesive covering (A) from the metal plate (B) on the mount assembly. Firmly press the metal plate into position for 10 seconds.



26. Install the screw (C) to attach the metal plate (B) to the footboard.

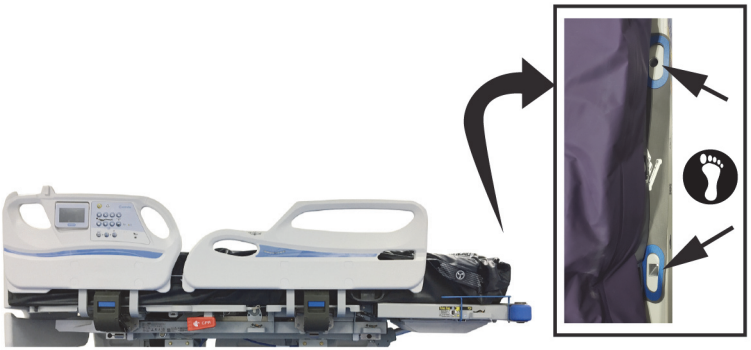
    NOTE:
    Installing the screw on to the footboard will not void the warranty of the product.

27. Use the alcohol-based cleaner to clean the metal plate (B). Let the plate dry.
28. Remove the adhesive covering from the status indicator label (D).
29. Make sure the label (D) is in the correct orientation, then install the label on to the metal plate (B). Firmly press the label into position for 10 seconds.
30. Go to "Step 4: Final Steps" on page 28.

Step 3B: Install the MCM Status Indicator Mounting Kit (Rental Only)

The mount for the **MCM** status indicator is to be installed on the outside of the footboard. The rental **MCM** indicator strap can be put on the right or left side of the footboard.

31. Lift the foot end of the surface.
32. Align the holes of the foot end flap with the footboard sockets in the bed (see below).



33. Align the footboard posts to go through the holes on the flap, and install the footboard.

    NOTE:
    Make sure that the status indicator cord is not between the installed footboard and bed.

34. Wrap the status indicator strap around the handle of the footboard and snap the strap together. Make sure the attachment location for the status indicator shows outward away from the patient.

35. Attach the status indicator to the status indicator label (metal disc) on the strap.
36. Go to "Step 4: Final Steps" on page 28.

Step 4: Final Steps

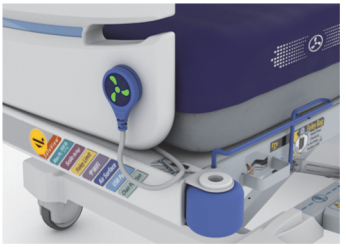
37. Plug the surface power cord into AC power.
38. Put the bed in the flat position.

WARNING:

Warning—Keep cords out of the patient area or injury could occur.

39. Attach the magnetized status indicator to its mount on the footboard. Make sure to store the excess cord away from the patient area, see below.

Capital

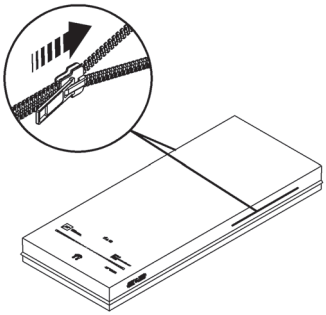


Rental

40. Make sure the status indicator is green.

NOTE:
For more information about the indicator light, see "Status Indicator light" on page 30.

41. Make sure the surface foot end flap is secured by the footboard.
42. If applicable, make sure the x-ray sleeve zipper is closed on both sides of the surface.



43. Make sure the bed is plugged into AC power.

WARNING:

Warning—Do not allow the surface to stay in continuous contact with the headboard. This could impact the scale accuracy and Bed Exit performance which could cause patient injury.

44. Make sure the surface is not in continuous contact with the headboard.
45. It the bed has a scale system, zero the scale. See the bed's user manual.
46. If the bed has the **Obstacle Detect** System, make sure the surface power cord does not interfere with system. See the bed's user manual.

WARNING:

Warning—Put the power cord in a location where persons will not trip over it, and away from bed mechanisms. Failure to do so could cause injury or equipment damage.

47. Make sure the power cord is in a location where persons will not trip over it, and away from bed mechanisms.

Status Indicator light

Status	Indicator Light
Green light—identifies that the **MCM** status indicator function is operating correctly.	
Yellow light—identifies a low priority alarm. An error has occurred with the **MCM** status indicator function. See the ***pro+*** *Service Manual* (209197).	
No light—the **MCM** status indicator function is not active. Make sure the surface is plugged into AC power.	

1.2 CENTRELLA Smart+ Bed—Integrated pro+ Surface

Tools: T25 **Torx** screwdriver

Parts:

P7923A01 **pro+** Surface with x-ray, 36" (91 cm)

or

P7923A02 **pro+** Surface with x-ray, 40" (102 cm)

or

P7923A03 **pro+** Surface without x-ray, 36" (91 cm)

or

P7923A04 **pro+** Surface without x-ray, 40" (102 cm)

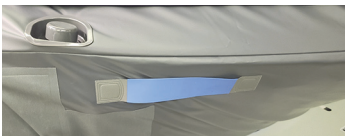
NOTE:
If the **Centrella** Smart+ Bed needs to be upgraded to use the **pro+** surface, refer to the upgrade instructions (210666).

Step 1: Setup

1. Make sure the brake is set on the bed.
2. Plug the bed into AC power.
3. Adjust the bed to the flat position.
4. Fully extend the foot section.
5. Put the bed in the lowest position.
6. Lower the siderails.
7. Remove the footboard.
8. If applicable, remove the surface (see the bed's service manual).

   WARNING:
   Warning—Failure to unplug the bed could cause injury or equipment damage.
9. Unplug the bed.

10. If the cover is installed over the cable connector that is between the thigh and foot sections of the bed, loosen the screw, do not remove it, then turn the cover to remove it.

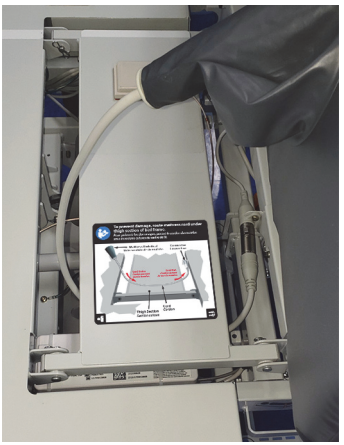


WARNING:

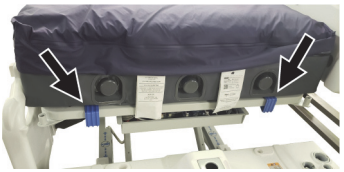
Warning—The surface weighs approximately 50 lb (22.7 kg). Lift and move the surface with the handles. Do not twist, and seek assistance when necessary. Failure to do so could cause injury or equipment damage.

11. Use the **pro+** surface handles on the bottom of the surface, to lift and install the surface on the bed. Make sure the logo side is up and at the foot end of the bed.

12. Fold one end of the surface over the other, route the surface cable between the seat and thigh sections of the bed. Then route the surface cable beneath the thigh section of the bed.
13. Connect the surface cable to the connection cable that is between the thigh and foot sections.



14. Unfold the surface and attach the surface hooks to the head end of the bed.



15. Plug the bed into AC power.
16. Make sure the green **MCM** status indicator (fan) shows at the top of the GCI screen. If the indicator does not show, do as follows:

a. Press the **MCM** status indicator menu control.

b. Press **On**.

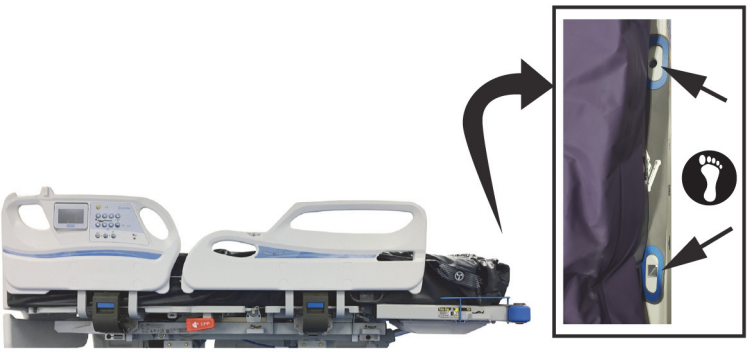
c. Press **OK**.

d. At the Home screen, make sure the green **MCM** indicator shows.

WARNING:

Warning—Make sure the surface is installed correctly and is securely attached to the bed. Failure to do so could cause the bed not to articulate as intended. Injury or equipment damage could occur.

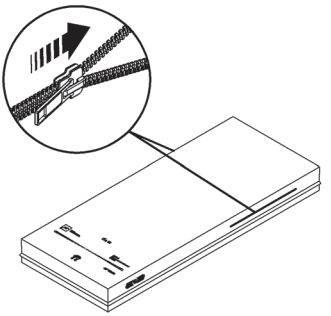
17. Lift the foot end of the surface.
18. Align the holes on the foot end flap with the footboard sockets in the bed (see below).



19. Align the footboard posts to go through the holes on the foot end flap, and install the footboard.

Step 2: Final Steps

20. Make sure the surface foot end flap is secured by the footboard.
21. If applicable, make sure the x-ray sleeve zipper is closed on both sides of the surface.



22. Put the bed in the flat position.

WARNING:

Warning—Do not allow the surface to stay in continuous contact with the headboard as this could impact the scale accuracy and Bed Exit performance which could cause patient injury.

23. Make sure the surface does not stay in continuous contact with the headboard.
24. If the bed has a scale system, zero the scale. See the bed's user manual.

VERSACARE BED—PRO+ SURFACE INSTALLATION INSTRUCTIONS

Tools: T10 **Torx** screwdriver

Parts: **Long Power Cord Models**

P3255A01 **VersaCare pro+** surface with x-ray

or

P3255A02 **VersaCare pro+** surface without x-ray

or

P3255A05 **VersaCare pro+** MRS surface with x-ray, Aus/NZ

Short Power Cord Models

P3255A03 **VersaCare pro+** surface with x-ray

or

P3255A04 **VersaCare pro+** surface without x-ray

WARNING:

To help prevent injury and/or equipment damage, obey these **warnings**:

- **Warning**—Make sure that hands, arms, legs, and feet are not under the bed or between the sleep deck sections as they move.
- **Warning**—During this procedure, you will need to use an alcohol-based cleaner. Such cleaners are flammable and toxic to skin, eyes, and respiratory tract. Do not use the cleaner near an open flame or in confined areas.
- **Warning**—Do not connect the power cord to an extension cord or multiple outlet strip. There is a risk of overheating and fire may cause injury or damage.

NOTE:
Any reference to a side of the bed or surface is from the patient's view lying in the bed on his or her back.

1. Determine which version of the surface you have:

Long Power Cord
(P3255A01, P3255A02, and P3255A05)

Short Power Cord
(P3255A03 and **P3255A04)**

2. Go to the applicable section for your surface:

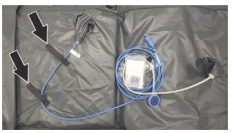
- For the long power cord, go to "pro+ Surface Long Power Cord (P3255A01, P3255A02, and P3255A05)" on page 38.
- For the short power cord, go to "pro+ Surface Short Power Cord (P3255A03 and P3255A04)" on page 48.

1.3 pro+ Surface Long Power Cord (P3255A01, P3255A02, and P3255A05)

Step 1: Setup

1. Make sure the brake is set on the bed.
2. Plug the bed into AC power.
3. Adjust the bed to the flat position.
4. Make sure the foot section is extended.
5. Put the bed in the lowest position.
6. Lower the siderails.
7. Remove the footboard.
8. If applicable, remove the surface (see the bed's service manual). If the **pro+** surface replaces an integrated air surface, do as follows to put the bed's air system in Off mode:
   a. Press the **Enable** control on the flip-up control pod.
   a. Simultaneously, press the **Max-Inflate** and **Normal** control for 5 seconds. After 5 seconds all surface indicators will turn off.

   NOTE:
   When the Off mode is activated, after five minutes, the air system will do a self-check to determine if an integrated surface is on the bed. Since an integrated surface is not on the bed, the system will stay in Off mode.
9. Make sure the **pro+** surface power cord is routed through the straps on the bottom cover.



WARNING:

To help prevent injury and/or equipment damage, obey these **warnings:**

- **Warning**—Make sure the surface is installed correctly. Failure to do so could cause the bed not to articulate as intended.
- **Warning**—The surface weighs approximately 50 lb (22.7 kg). Lift and move the surface with the handles. Do not twist, and seek assistance when necessary.

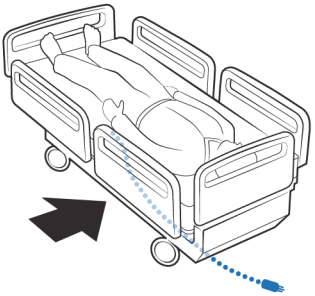
10. Use the surface handles on the side of the surface to lift and install the surface on the bed. Make sure the logo side is up and at the foot end of the bed.

11. Put the bed in this configuration:
    - **Knee** in the **highest** position
    - **Head** in the **highest** position
    - **Bed** in the **highest** position

Step 2: Route the Long Surface Power Cord (P3255A01, P3255A02, and P3255A05)

WARNING:

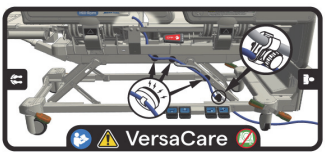
Warning—Failure to route the surface power cord correctly could cause a tripping hazard and/or the cord to be pinched during bed functions. Injury and/or equipment damage could occur.



The surface power cord is routed along the patient-left side of the **VersaCare** Bed.

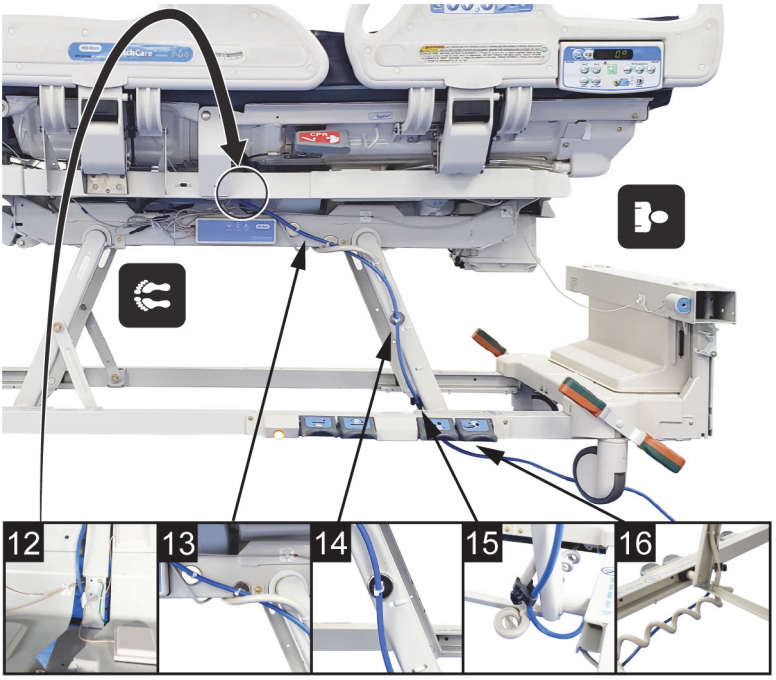
NOTES:

- Do **not** use cable ties to attach the power cord to the bed.
- A label on the surface power cord shows the routing and the attachment locations for the surface power cord on the bed frame.

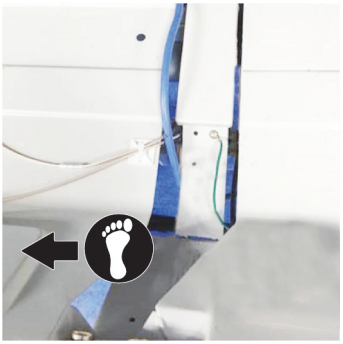


The surface power cord has magnets installed on the cord. The power cord is routed along the patient-left side of the bed to the head end of the bed. Below is an overall view of the cord routing; the numbered detail views correlate with Step 12 through Step 16 that follow.

Surface Power Cord Routing (P3255A01, P3255A02, and P3255A05)



12. Route the surface power cord between the head and seat sections on the left-side of the bed.

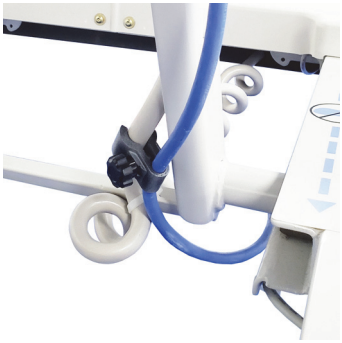


13. Attach two cord magnets to the upper frame at these locations:
    - Approximately 4.75" (12 cm) from the foot-end side of the lift arm pivot.
    - By the screw closest to the lift arm pivot. Route the power cord behind the bed power cord that is attached to the lift arm.

14. Attach one cord magnet to the middle of the upper lift arm.

15. Put the straight part of the bed power cord into the cord clamp that is on the surface power cord. Use the knob to tighten the cord clamp.

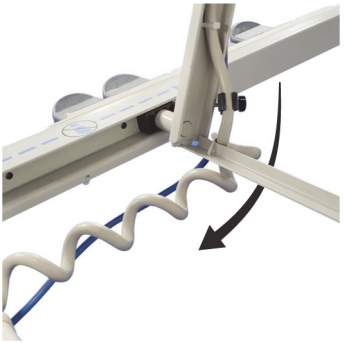
    Gently pull on the bed power cord to make sure the cord clamp is attached to the bed power cord.



CAUTION:

Caution—To help prevent equipment damage, make sure the power cord is routed under the lift arm weldment.

16. Route the power cord under the lift arm weldment, and between the head-end casters.

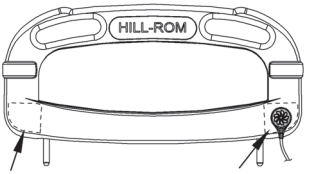


17. Go to the applicable section:
    - "Step 3A: Install the MCM Status Indicator Mounting Kit (Capital Only)" on page 42.

    or
    - "Step 3B: Install the MCM Status Indicator Mounting Kit (Rental Only)" on page 43.

Step 3A: Install the MCM Status Indicator Mounting Kit (Capital Only)

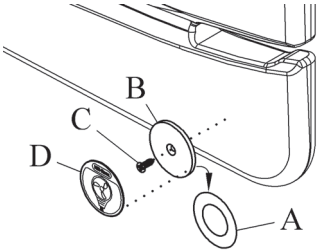
The mount for the **MCM** status indicator (status indicator) is to be installed on the outside of the footboard, on either the bottom-left or bottom-right.



18. Install the footboard.

    NOTE:
    Make sure that the status indicator cord is not between the installed footboard and bed.
19. Make sure the status indicator can reach the mount location before you start to install the mount assembly.
20. On the outside of the footboard, use the alcohol-based cleaner to clean the area where the status indicator mount is to be installed (this includes new footboards). Let the area dry.

21. Remove the adhesive covering (A) from the metal plate (B) on the mount assembly. Firmly press the metal plate into position for 10 seconds.



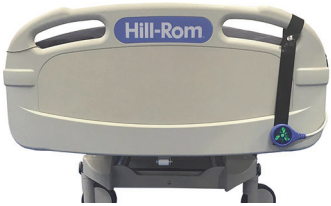
22. Install the screw (C) to attach the metal plate (B) to the footboard.

    NOTE:
    Installing the screw on to the footboard will not void the warranty of the product.

23. Use the alcohol-based cleaner to clean the metal plate (B). Let the plate dry.
24. Remove the adhesive covering from the mount label (D).
25. Make sure the label (D) is in the correct orientation, then install the label on to the metal plate (B). Firmly press the label into position for 10 seconds.
26. Go to "Step 4: Final Steps" on page 44.

Step 3B: Install the MCM Status Indicator Mounting Kit (Rental Only)

The mount for the **MCM** status indicator is to be installed on the outside of the footboard. The rental **MCM** indicator strap can be put on the right or left side of the footboard.



27. Install the footboard.

    NOTE:
    Make sure the status indicator cord is not between the installed footboard and bed.

28. Wrap the status indicator strap around the handle of the footboard and snap the strap together. Make sure the attachment location for the status indicator shows outward away from the patient.

29. Attach the status indicator to the status indicator label (metal disc) on the strap.
30. Go to "Step 4: Final Steps" on page 44.

Step 4: Final Steps

WARNING:

Warning—Make sure the surface is installed correctly and is securely attached to the bed. Failure to do so could cause the bed not to articulate as intended. Injury and/or equipment damage could occur.

31. Lift the foot end of the surface.
32. Install one side of the surface retaining strap (A) into the retainer (B).
33. Install the opposite side of the surface retaining strap into the retainer.

34. Repeat Step 32 and Step 33 at the head end of the bed.
35. Plug the surface power cord into AC power.
36. Put the bed in the flat position.

WARNING:

Warning—Keep cords out of the patient area or injury could occur.

37. Attach the magnetized status indicator to its mount on the footboard. Make sure to store the excess cord away from the patient area.

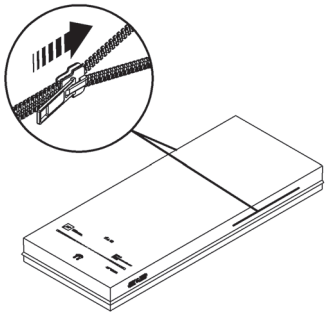
Capital

Rental

38. Make sure the status indicator is green.

    NOTE:
    For more information about the indicator light, see "Status Indicator Light" on page 47.

39. If applicable, make sure the x-ray sleeve zipper is closed on both sides of the surface.



40. Make sure the bed is plugged into AC power.

    WARNING:

    Warning—Do not allow the surface to stay in continuous contact with the headboard. This could impact the scale accuracy and Bed Exit performance which could cause patient injury.

41. Make sure the surface is not in continuous contact with the headboard.

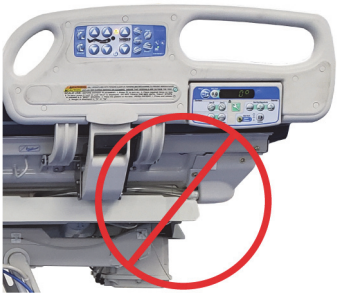
42. If the bed has a scale system, zero the scale. See the bed's user manual.
43. If the bed has the **Obstacle Detect** System, raise and lower the bed to make sure the surface power cord does not interfere with the system. See the bed's user manual.

WARNING:

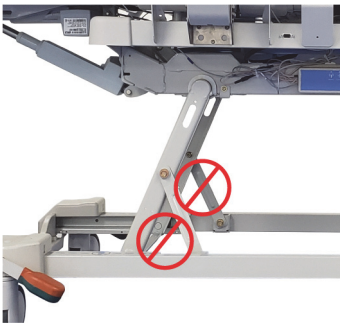
Warning—Put the power cord in a location where persons will not trip over it, and away from bed mechanisms. Failure to do so could cause injury or equipment damage.

44. Make sure the power cord is in a location where persons will not trip over it, and away from bed mechanisms.
45. For surface models P3255A01 and P3255A02, make sure the surface power cord is not in these locations:

Head End



Foot End



Head End

Status Indicator Light

Status	Indicator Light
Green light—identifies that the **MCM** status indicator function is operating correctly.	
Yellow light—identifies a low priority alarm. An error has occurred with the **MCM** status indicator function. See the ***pro+*** *Service Manual* (209197).	
No light—the **MCM** status indicator function is not active. Make sure the surface is plugged into AC power.	

1.4 pro+ Surface Short Power Cord (P3255A03 and P3255A04)

Step 1: Setup

1. Make sure the brake is set on the bed.
2. Plug the bed into AC power.
3. Adjust the bed to the flat position.
4. Make sure the foot section is extended.
5. Put the bed in the lowest position.
6. Lower the siderails.
7. Remove the footboard.
8. If applicable, remove the surface (see the bed's service manual). If the **pro+** surface replaces an integrated air surface, do as follows to put the bed's air system in Off mode:
   a. Press the **Enable** control on the flip-up control pod.
   b. Simultaneously, press the **Max-Inflate** and **Normal** control for 5 seconds. After 5 seconds, all surface indicators will turn off.

   NOTE:
   When the Off mode is activated, after five minutes, the air system will do a self-check to determine if an integrated surface is on the bed. Since an integrated surface is not on the bed, the system will stay in Off mode.
9. Make sure the **pro+** surface power cord is routed through the straps on the bottom cover.

WARNING:

To help prevent injury and/or equipment damage, obey these **warnings:**

- **Warning**—Make sure the surface is installed correctly. Failure to do so could cause the bed not to articulate as intended.

WARNING:

(Warnings continued) To help prevent injury and/or equipment damage, obey these **warnings:**

- **Warning**—The surface weighs approximately 50 lb (22.7 kg). Lift and move the surface with the handles. Do not twist, and seek assistance when necessary.

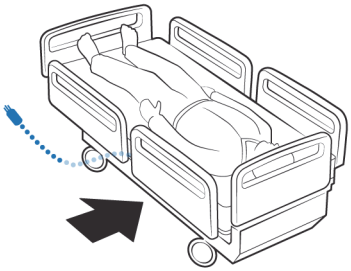
10. Use the surface handles on the side of the surface to lift and install the surface on the bed. Make sure the logo side is up and at the foot end of the bed.

11. Put the bed in this configuration:
    - **Knee** in the **highest** position
    - **Head** in the **highest** position
    - **Bed** in the **highest** position

Step 2: Route the Surface Power Cord (P3255A03 and P3255A04)

WARNING:

Warning—Failure to route the surface power cord correctly could cause a tripping hazard and/or the cord to be pinched during bed functions. Injury and/or equipment damage could occur.

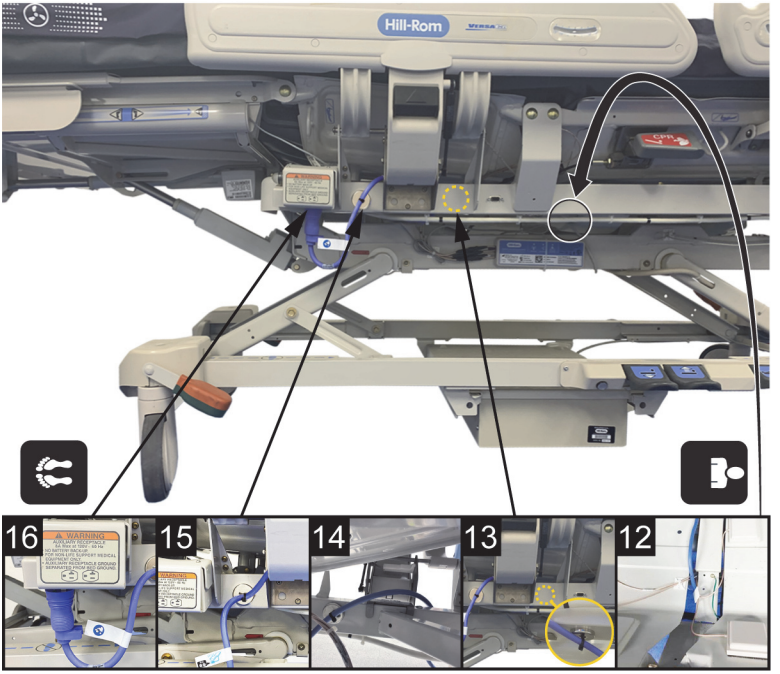


The surface power cord is routed along the patient-left side of the **VersaCare** Bed.

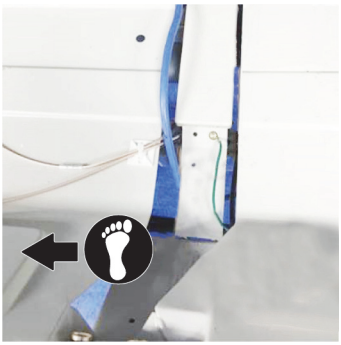
NOTE:
A label on the surface power cord shows to plug the surface power cord into the auxiliary outlet on the bed.

The surface power cord has magnets installed on the cord. The power cord is routed along the patient-left side towards the foot-end of the bed to the auxiliary outlet. Below is an overall view of the cord routing; the numbered detail views correlate with Step 12 through Step 16 that follow.

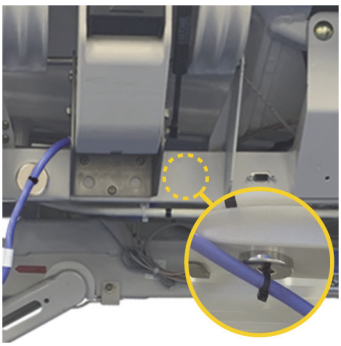
Surface Power Cord Routing (P3255A03 and P3255A04)



12. Route the power cord between the head and seat sections on the left-side of the bed.



13. Attach the first cord magnet to the upper frame on the inside of the intermediate frame, between the siderail center arm and right siderail weldment.



14. After attaching the first magnet, route the cord over the siderail center arm and pull through to the front of the intermediate frame.

NOTE:
Make sure the power cord is routed over the top of the siderail cross tube.

15. Attach the second cord magnet on the outside of the intermediate frame, between the siderail center arm and left side siderail weldment.

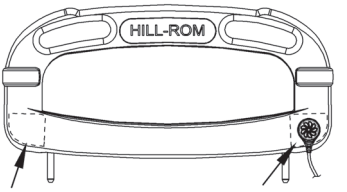
16. Plug the mattress power cord into the auxiliary outlet.

WARNING:

Warning—Do not connect the power cord to an extension cord or multiple outlet strip. There is a risk of overheating and fire may cause injury or damage.

Step 3: Install the MCM Status Indicator Mounting Kit (Capital Only)

The mount for the **MCM** status indicator (status indicator) is to be installed on the outside of the footboard, on either the bottom-left or bottom-right.

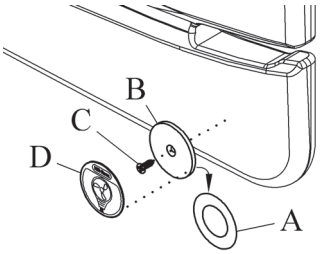


17. Install the footboard.

NOTE:
Make sure that the status indicator cord is not between the installed footboard and bed.

18. Make sure the status indicator can reach the mount location before you start to install the mount assembly.

19. On the outside of the footboard, use the alcohol-based cleaner to clean the area where the status indicator mount is to be installed (this includes new footboards). Let the area dry.
20. Remove the adhesive covering (A) from the metal plate (B) on the mount assembly. Firmly press the metal plate into position for 10 seconds.



21. Install the screw (C) to attach the metal plate (B) to the footboard.

    NOTE:
    Installing the screw on to the footboard will not void the warranty of the product.
22. Use the alcohol-based cleaner to clean the metal plate (B). Let the plate dry.
23. Remove the adhesive covering from the mount label (D).
24. Make sure the label (D) is in the correct orientation, then install the label on to the metal plate (B). Firmly press the label into position for 10 seconds.
25. Go to "Step 4: Final Steps" on page 53.

Step 4: Final Steps

WARNING:

Warning—Make sure the surface is installed correctly and is securely attached to the bed. Failure to do so could cause the bed not to articulate as intended. Injury and/or equipment damage could occur.

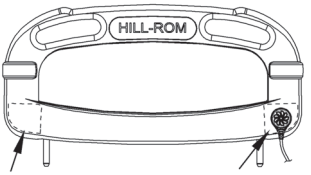
26. Lift the foot end of the surface.
27. Install one side of the surface retaining strap (A) into the retainer (B).
28. Install the opposite side of the surface retaining strap into the retainer.

29. Repeat Step 27 and Step 28 at the head end of the bed.
30. Plug the surface power cord into AC power.
31. Put the bed in the flat position.

WARNING:

Warning—Keep cords out of the patient area or injury could occur.

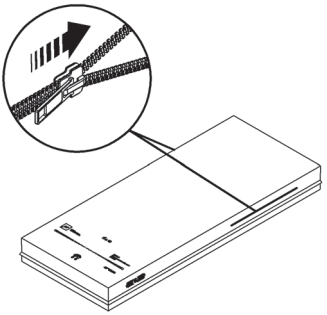
32. Attach the magnetized status indicator to its mount on the footboard. Make sure to store the excess cord away from the patient area.



33. Make sure the status indicator is green.

NOTE:
For more information about the indicator light, see “Status Indicator Light” on page 56.

34. If applicable, make sure the x-ray sleeve zipper is closed on both sides of the surface.



35. Make sure the bed is plugged into AC power.

WARNING:

Warning—Do not allow the surface to stay in continuous contact with the headboard. This could impact the scale accuracy and Bed Exit performance which could cause patient injury.

36. Make sure the surface is not in continuous contact with the headboard.
37. If the bed has a scale system, zero the scale. See the bed's user manual.
38. If the bed has the **Obstacle Detect** System, raise and lower the bed to make sure the surface power cord does not interfere with the system. See the bed's user manual.

WARNING:

Warning—Put the power cord in a location where persons will not trip over it, and away from bed mechanisms. Failure to do so could cause injury or equipment damage.

39. Make sure the power cord is in a location where persons will not trip over it, and away from bed mechanisms.

Status Indicator Light

Status	Indicator Light
Green light—identifies that the **MCM** status indicator function is operating correctly.	
Yellow light—identifies a low priority alarm. An error has occurred with the **MCM** status indicator function. See the ***pro+*** *Service Manual* (209197).	
No light—the **MCM** status indicator function is not active. Make sure the surface is plugged into AC power.	

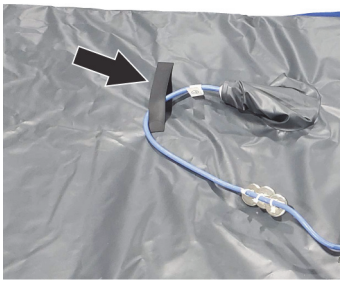
CAREASSIST AND ADVANTA 2 BEDS

Tools: T10 **Torx** screwdriver

Parts: P7924A01 **pro+** surface with x-ray (36" (91 cm))
or
P7924A **pro+** surface without x-ray (36" (91 cm))

Step 1: Setup

1. Make sure the brake is set on the bed.
2. Plug the bed into AC power.
3. Adjust the bed to the flat position.
4. Put the bed in the lowest position.
5. Lower the siderails.
6. Remove the footboard.
7. If applicable, remove the surface (see the bed's service manual).
8. Lift the **pro+** surface to make sure the surface power cord is routed through the strap on the bottom cover.



WARNING:

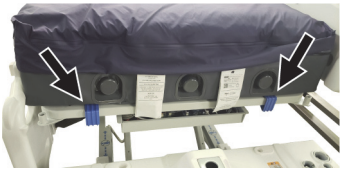
Warning—The surface weighs approximately 50 lb (22.7 kg). Lift and move the surface with the handles. Do not twist, and seek assistance when necessary. Failure to do so could cause injury or equipment damage.

9. Use the surface handles on the bottom of the surface to lift and install the surface on the bed. Make sure the logo side is up and at the foot end of the bed.

WARNING:

Warning—Make sure the surface is installed correctly and is securely attached to the bed. Failure to do so could cause the bed not to articulate as intended. Injury or equipment damage could occur.

10. Attach the surface hooks to the head end of the bed.

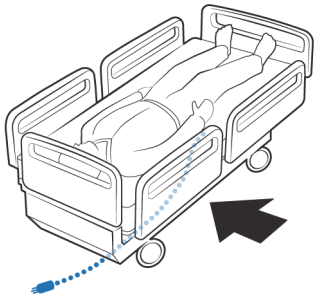


11. Put the bed in this configuration:
    - **Knee** in the **highest** position
    - **Head** in the **highest** position
    - **Bed** in the **highest** position

Step 2: Route the Surface Power Cord

WARNING:

Warning—Failure to route the surface power cord correctly could create a tripping hazard and/or the cord to be pinched during bed functions. Injury and/or equipment damage could occur.



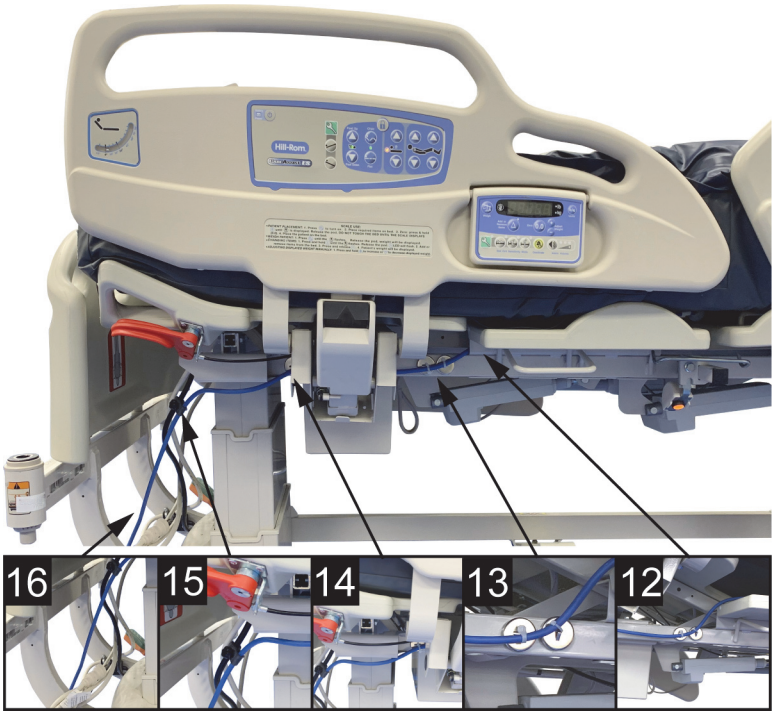
The surface power cord is routed along the patient-right side of the **CareAssist** and **Advanta** 2 Beds.

NOTES:

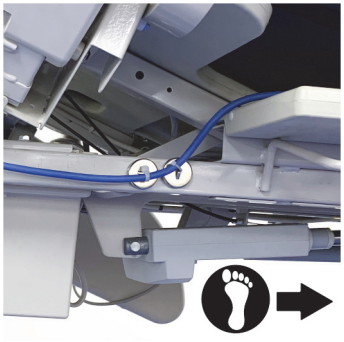
- Do **not** use cable ties to attach the power cord to the bed.
- A label on the surface power cord shows the routing and the attachment locations for the surface power cord on the bed.

The surface power cord has magnets installed on the cord. The power cord is routed along the patient-right side of the bed. Below is an overall view of the cord routing; the numbered detail views correlate with Step 12 through Step 16 that follow.

CAREASSIST or ADVANTA 2 Bed—Surface Power Cord Routing

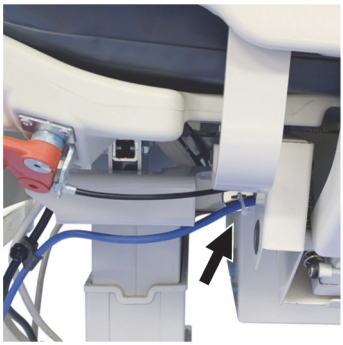


12. Route the surface power cord between the head and seat sections on the right-side of the bed.



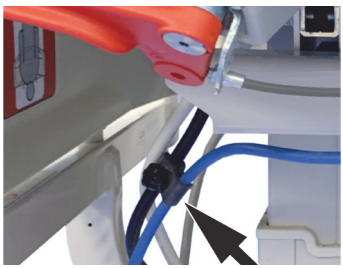
13. Attach two cord magnets to the upper frame below the head section on the foot-end side of the siderail mount.

14. Attach one magnet to the upper frame below the head section on the head-end side of the siderail mount.



15. Put the bed power cord into the cord clamp that is on the surface power cord. Use the knob to tighten the cord clamp.

    Gently pull on the bed power cord to make sure the cord clamp is attached to the bed power cord.



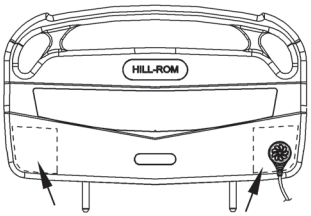
16. Route the power cord between the lower frame and headboard support.

17. Go to the applicable section:
    - "Step 3A: Install the MCM Status Indicator Mounting Kit (Capital Only)" on page 61

    or
    - "Step 3B: Install the MCM Status Indicator Mounting Kit (Rental Only)" on page 62.

Step 3A: Install the MCM Status Indicator Mounting Kit (Capital Only)

The mount for the **MCM** status indicator (status indicator) is to be installed on the outside of the footboard, on either the bottom-left or bottom-right.



18. Install the footboard.

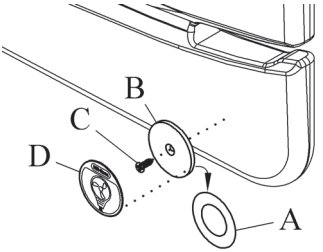
NOTE:
Make sure the status indicator cord is not between the installed footboard and bed.

19. Make sure the status indicator can reach the mount location before you start to install the mount assembly.

WARNING:

Warning—Alcohol-based cleaners are flammable and toxic to skin, eyes, and respiratory tract. Do not use near an open flame. Do not use in confined areas. Injury could occur.

20. On the outside of the footboard, use the alcohol-based cleaner to clean the area where the status indicator mount is to be installed (this includes new footboards). Let the area dry.
21. Remove the adhesive covering (A) from the metal plate (B) of the mount assembly. Firmly press the metal plate into position for 10 seconds.

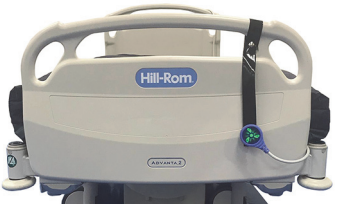


22. Install the screw (C) to attach the metal plate (B) to the footboard.

    NOTE:
    Installing the screw on to the footboard will not void the warranty of the product.
23. Use the alcohol-based cleaner to clean the metal plate (B). Let the plate dry.
24. Remove the adhesive covering from the status indicator label (D).
25. Make sure the label (D) is in the correct orientation, then install the label on to the metal plate (B). Firmly press the label into position for 10 seconds.

Step 3B: Install the MCM Status Indicator Mounting Kit (Rental Only)

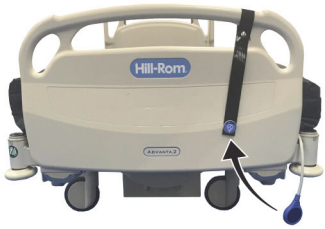
The mount for the **MCM** status indicator (status indicator) is to be installed on the outside of the footboard. The rental **MCM** indicator strap can be put on the right or left side of the footboard.



26. Install the footboard.

    NOTE:
    Make sure the status indicator cord is not between the installed footboard and bed.

27. Wrap the status indicator strap around the handle of the footboard and snap the strap together. Make sure the attachment location for the status indicator shows outward away from the patient.



28. Attach the status indicator to the status indicator label (metal disc) on the strap.
29. Go to "Step 4: Final Steps" on page 63.

Step 4: Final Steps

30. Plug the surface power cord into AC Power.
31. Put the bed in the flat position.

WARNING:

Warning—Keep cords out of the patient area or injury could occur.

32. Attach the magnetized status indicator to its mount on the footboard. Make sure to store the excess cord away from the patient area, see below.

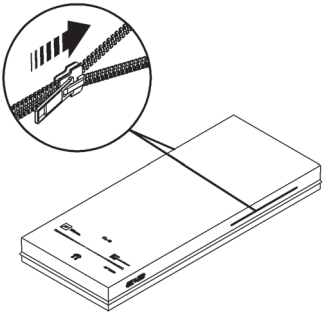
Capital

Rental

33. Make sure the status indicator is green.

    NOTE:
    For more information about the indicator light, see "Status Indicator" on page 65.

34. If applicable, make sure the x-ray sleeve zipper is closed on both sides of the surface.



35. Make sure the bed is plugged into AC power.

    WARNING:
    Warning—Do not allow the surface to stay in continuous contact with the headboard. This could impact the scale accuracy and Bed Exit performance which could cause patient injury.

36. Make sure the surface is not in continuous contact with the headboard.
37. If the bed has a scale system, zero the scale. See the bed's user manual.
38. If the bed has the **Obstacle Detect** System, raise and lower the bed to make sure the surface power cord does not interfere with the system. See the bed's user manual.

    WARNING:
    Warning—Put the power cord in a location where persons will not trip over it, and away from bed mechanisms. Failure to do so could cause injury or equipment damage.

39. Make sure the power cord is in a location where persons will not trip over it, and away from bed mechanisms.

Status Indicator

Status	Indicator Light
Green light—identifies that the **MCM** status indicator function is operating correctly.	
Yellow light—identifies a low priority alarm. An error has occurred with the **MCM** status indicator function. See the ***pro+*** *Service Manual* (209197).	
No light—the **MCM** status indicator function is not active. Make sure the surface is plugged into AC power.	

900 BEDS

Products: **900** Bed, models LI900B2 (with split rails only) and LI900B3 (with split rails only)

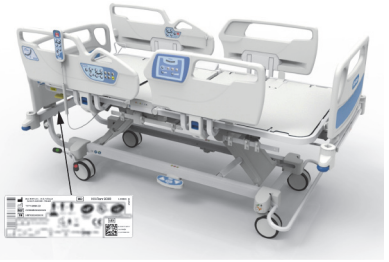
Tools: T10 **Torx** screwdriver

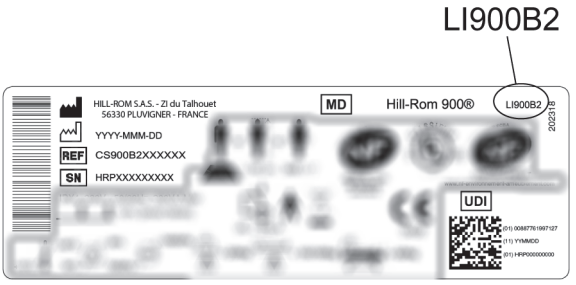
Parts: P006800A01 **pro+** surface with x-ray
or
P006800A02 **pro+** surface without x-ray
or
P006800A03 **pro+** surface with x-ray, Aus/NZ

NOTE:
The bed model can be found on the product label.

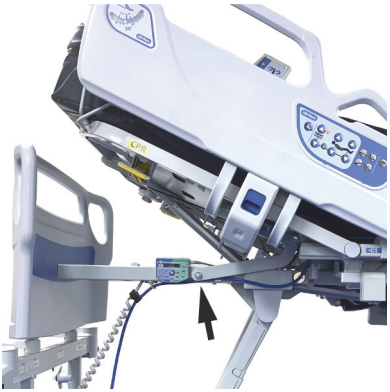
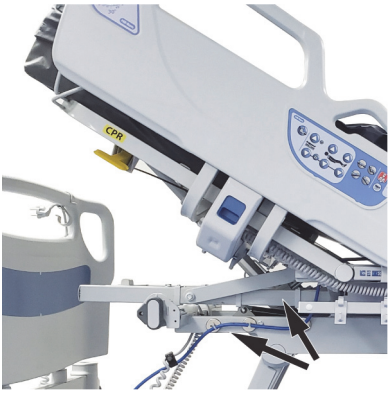
LI900B2

LI900B3





1. Determine which version of the **900** Bed you have (see below).

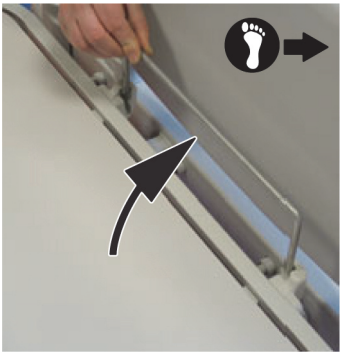
LI900B2	**LI900B3**
(one frame)	(two frames)
	

2. Go to the applicable section for your bed:
   - "LI900B2" on page 68
   - "LI900B3" on page 75

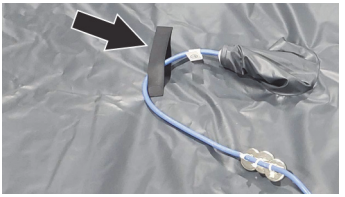
1.5 LI900B2

Step 1: Setup

1. Make sure the brake is set on the bed.
2. Plug the bed into AC power.
3. Adjust the bed to the flat position.
4. Put the bed in the lowest position.
5. Lower the siderails.
6. If applicable, remove the surface (see the bed's service manual).
7. Raise the folding surface clamp at the foot end of the bed.



8. Lift the **pro+** surface to make sure the surface power cord is routed through the strap on the bottom cover.



WARNING:

To help prevent injury and/or equipment damage, obey these **warnings:**

- **Warning**—Make sure the surface is installed correctly. Failure to do so could cause the bed not to articulate as intended.

WARNING:

(Warnings continued) To help prevent injury and/or equipment damage, obey these **warnings:**

- **Warning**—The surface weighs approximately 50 lb (22.7 kg). Lift and move the surface with the handles. Do not twist, and seek assistance when necessary.

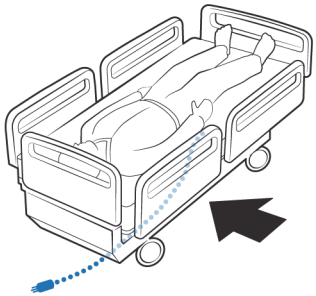
9. Use the **pro+** surface handles on the side of the surface, to lift and install the surface on the bed. Make sure the logo side is up and at the foot end of the bed.

10. Put the bed in this configuration:
    - **Bed** in the **highest** position
    - **Knee** in the **highest** position
    - **Head** in the **highest** position

Step 2: Route the Surface Power Cord

WARNING:

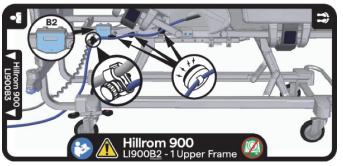
Warning—Failure to route the surface power cord correctly could create a tripping hazard and/or the cord to be pinched during bed functions. Injury and/or equipment damage could occur.



The surface power cord is routed along the patient-right side of the **900** Bed.

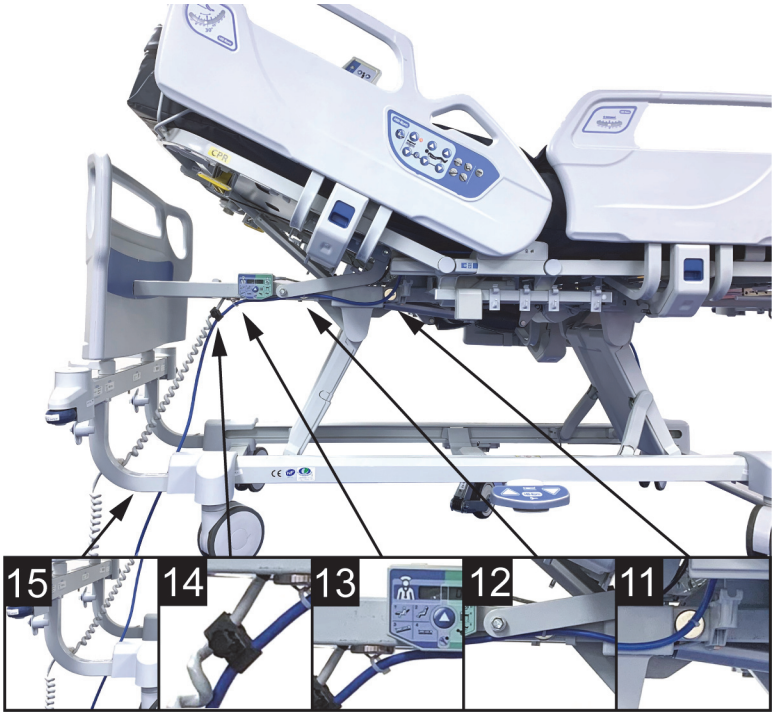
NOTES:

- Do **not** use cable ties to attach the power cord to the bed.
- A label on the surface power cord shows the routing and the attachment locations for the surface power cord on the bed frame.



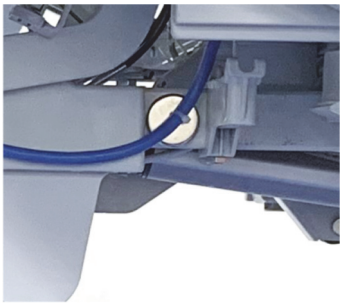
The surface power cord has magnets installed on the cord. The power cord is routed along the patient-right side of the bed to the head end of the bed. Below is an overall view of the cord routing; the numbered detail views correlate with Step 11 through Step 15 that follow.

LI900B2—Surface Power Cord Routing

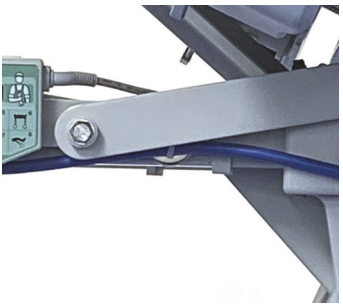


11. Route the surface power cord between the head and seat sections on the right-side of the bed, inside the head pivot.

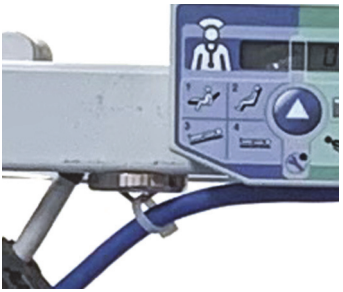
    Attach one cord magnet to the upper frame below the head section between the lift arm cover and the accessory support.



12. Attach one cord magnet to the upper frame behind the head lift arm.



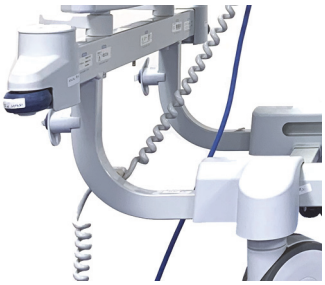
13. Attach one cord magnet to the bottom of the upper frame by the bed power cord.



14. Put the straight section of the bed power cord into the cord clamp that is on the surface power cord. Use the knob to tighten the cord clamp.

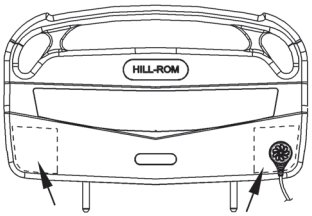
    Gently pull on the bed power cord to make sure the cord clamp is attached to the bed power cord.

15. Route the power cord between the lower frame and headboard support.



Step 3: Install the MCM Status Indicator Mounting Kit

The mount for the **MCM** status indicator (status indicator) is to be installed on the outside of the footboard on either the bottom-left or bottom-right.



16. Install the footboard.

NOTE:
Make sure that the status indicator cable is not between the footboard and bed.

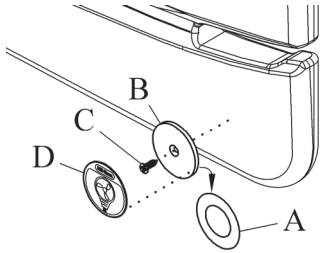
17. Make sure the status indicator can reach the mount location before you start to install the mount assembly.

WARNING:

Warning—Alcohol-based cleaners are flammable and toxic to skin, eyes, and respiratory tract. Do not use near an open flame. Do not use in confined areas. Injury could occur.

18. On the outside of the footboard, use the alcohol-based cleaner to clean the area where the status indicator is to be installed (this includes new footboards). Let the area dry.

19. Remove the adhesive covering (A) from the metal plate (B) of the mount assembly. Firmly press the metal plate into position for 10 seconds.



20. Install the screw (C) to attach the metal plate to the footboard.

    NOTE:
    Installing the screw on to the footboard will not void the warranty of the product.

21. Use the alcohol-based cleaner to clean the metal plate (B). Let the area dry.
22. Remove the adhesive covering from the mount label (D).
23. Make sure the label (D) is in the correct orientation, then install the label on to the metal plate (B). Firmly press the label into position for 10 seconds.

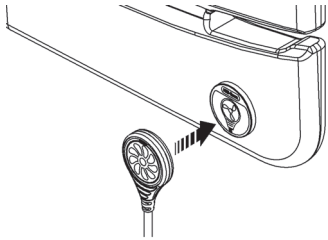
Step 4: Final Steps

24. Plug the surface power cord into AC power.
25. Put the bed in the flat position.

    WARNING:

    Warning—Keep cords out of the patient area or injury could occur.

26. Attach the magnetized status indicator to its mount on the footboard.

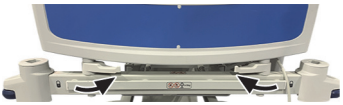


27. Make sure to store the excess cord away from the patient area.

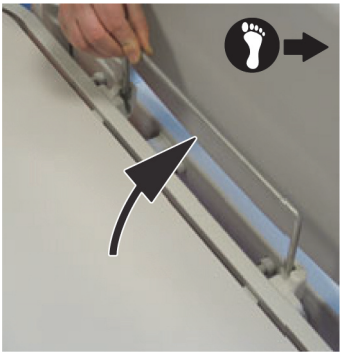
28. Make sure the status indicator is green.

NOTE:
For more information about the indicator light, see "Status Indicator Light" on page 83.

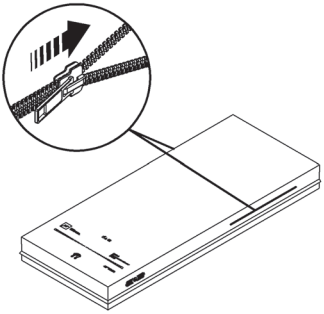
29. Make sure the footboard levers are in the locked position.



30. Make sure the folding foot-end surface clamp is in the up position.



31. If applicable, make sure the x-ray sleeve zipper is closed on both sides of the surface.



32. Make sure the bed is plugged into AC power.

WARNING:

Warning—Do not allow the surface to stay in continuous contact with the headboard. This could impact the scale accuracy and Bed Exit performance which could cause patient injury.

33. Make sure the surface does not stay in continuous contact with the headboard.

34. If the bed has a scale system, zero the scale. See the bed's user manual.

WARNING:

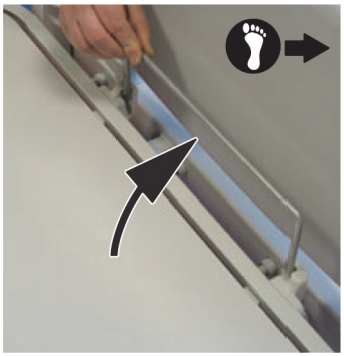
Warning—Put the power cord in a location where persons will not trip over it, and away from bed mechanisms. Failure to do so could cause injury or equipment damage.

35. Make sure the power cord is in a position where persons will not trip over it, and away from bed mechanisms.

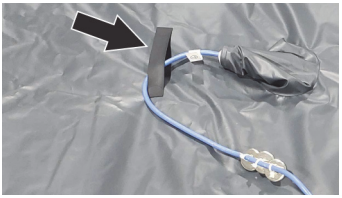
1.6 LI900B3

Step 1: Setup

1. Make sure the brake is set on the bed.
2. Plug the bed into AC power.
3. Adjust the bed to the flat position.
4. Put the bed in the lowest position.
5. Lower the siderails.
6. If applicable, remove the surface (see the bed's service manual).
7. Make sure the folding foot-end surface clamp is in the up position.



8. Lift the **pro+** surface to make sure the surface power cord is routed through the strap on the bottom cover.



WARNING:

To help prevent injury and/or equipment damage, obey these **warnings:**

- **Warning**—Make sure the surface is installed correctly. Failure to do so could cause the bed not to articulate as intended.
- **Warning**—The surface weighs approximately 50 lb (22.7 kg). Lift and move the surface with the handles. Do not twist, and seek assistance when necessary.

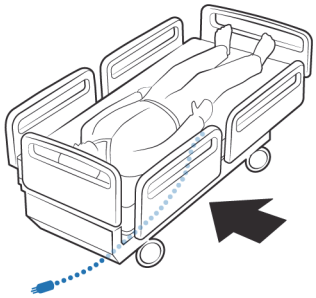
9. Use the surface handles on the side of the surface, to lift and install the surface on the bed. Make sure the logo side is up and at the foot end of the bed.

10. Put the bed in this configuration:
    - **Bed** in the **highest** position
    - **Knee** in the **highest** position
    - **Head** in the **highest** position

Step 2: Route the Surface Power Cord

WARNING:

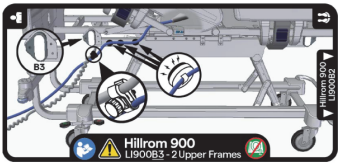
Warning—Failure to route the surface power cord correctly could create a tripping hazard and/or the cord to be pinched during bed functions. Injury and/or equipment damage could occur.



The surface power cord is routed along the patient-right side of the **900** Bed.

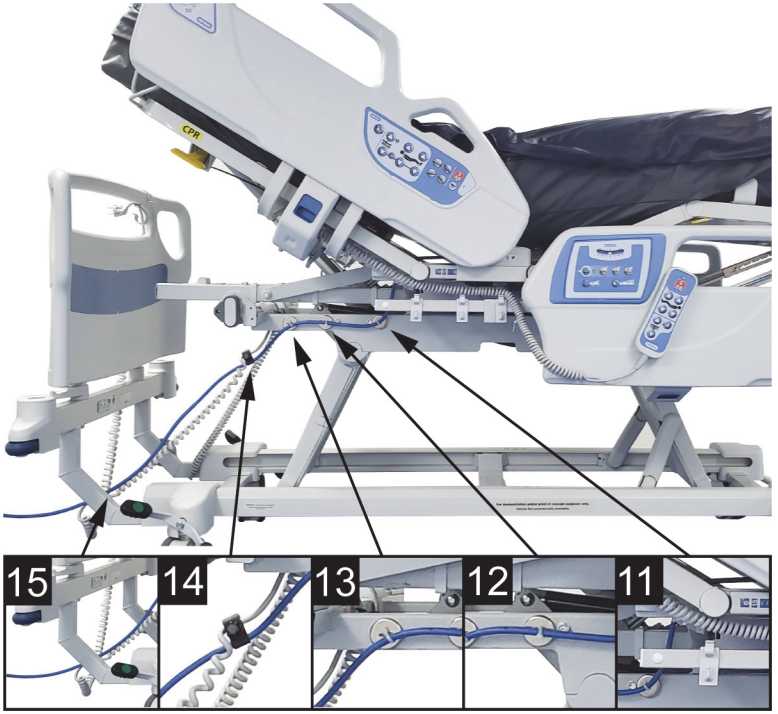
NOTES:

- Do **not** use cable ties to attach the power cord to the bed.
- The label on the surface power cord shows the routing and the attachment locations for the surface power cord on the bed frame.



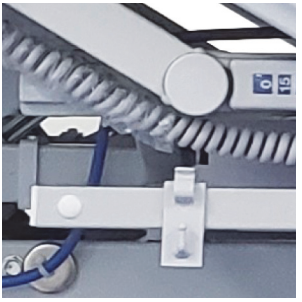
The surface power cord has magnets installed on the cord. The power cord is routed along the patient-right side of the bed to the head end of the bed. Below is an overall view of the cord routing; the numbered detail views correlate with Step 11 through Step 15 that follow.

900 Bed (LI900B3)—Surface Power Cord Routing

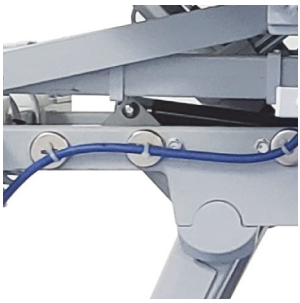


11. Route the surface power cord between the head and seat sections on the right-side of the bed, inside the head pivot.

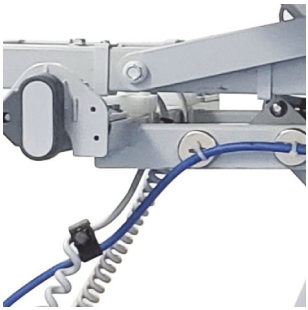
    Attach one cord magnet to the upper frame on the right side of the lift arm, next to the bolt.



12. Attach one cord magnet to the upper frame on the left side of the lift arm, next to the bolt.



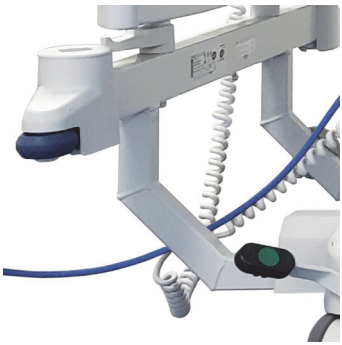
13. Attach one cord magnet to the upper frame by the bed power cord.



14. Put the straight section of the bed power cord into the cord clamp that is on the surface power cord. Tighten the cord clamp using the knob.

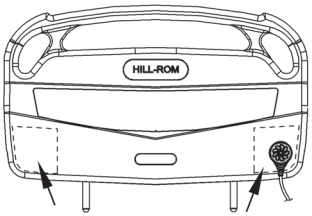
    Gently pull on the bed power cord to make sure the power cord clamp is attached to the bed power cord.

15. Route the power cord between the lower frame and headboard support.



Step 3: Install the MCM Status Indicator Mounting Kit

The mount for the **MCM** status indicator (status indicator) is to be installed on the outside of the footboard on either the bottom-left or bottom-right.



16. Install the footboard.

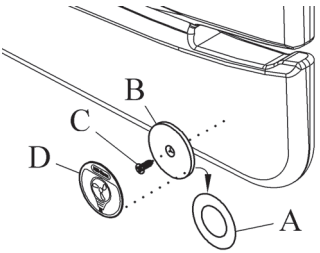
NOTE:
Make sure that the status indicator cord is not between the installed footboard and bed.

17. Make sure the status indicator can reach the mount location before you start to install the mount assembly

WARNING:

Warning—Alcohol-based cleaners are flammable and toxic to skin, eyes, and respiratory tract. Do not use near an open flame. Do not use in confined areas. Injury could occur.

18. On the outside of the footboard, use the alcohol-based cleaner to clean the area where the status indicator is to be installed (this includes new footboards). Let the area dry.
19. Remove the adhesive covering (A) from the metal plate (B) of the mount assembly, and firmly press the metal plate (B) into position for 10 seconds.



20. Install the screw (C) to attach the metal plate to the footboard.

NOTE:
Installing the screw on to the footboard will not void the warranty of the product.

21. Use the alcohol-based cleaner to clean the metal plate (B). Let the plate dry.
22. Remove the adhesive covering from the mount label (D).
23. Make sure the label (D) is in the correct orientation, then install the label on to the metal plate (B). Firmly press the label into position for 10 seconds.

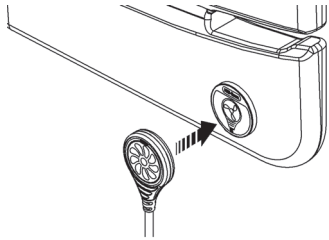
Step 4: Final Steps

24. Plug the surface power cord into AC power.
25. Put the bed in the flat position.

WARNING:

Warning—Keep cords out of the patient area or injury could occur.

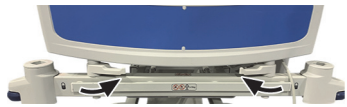
26. Attach the magnetized status indicator to its mount on the footboard. Make sure to store the excess cord away from the patient area.



27. Make sure the status indicator is green.

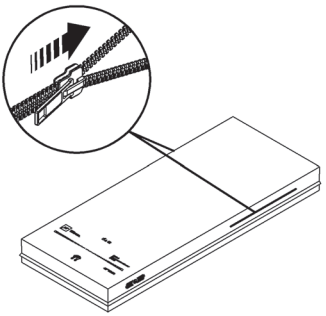
NOTE:
For more information about the indicator light, see "Status Indicator Light" on page 83.

28. Make sure the footboard levers are in the locked position.



29. Make sure the folding foot-end surface clamp is in the up position.

30. If applicable, make sure the x-ray sleeve zipper is closed on both sides of the surface.



31. Make sure the bed is plugged into AC power.

WARNING:

Warning—Do not allow the surface to stay in continuous contact with the headboard. This could impact the scale accuracy and Bed Exit performance which could cause patient injury.

32. Make sure the surface does not stay in continuous contact with the headboard.
33. If the bed has a scale system, zero the scale. See the bed's user manual.

WARNING:

Warning—Put the power cord in a location where persons will not trip over it, and away from bed mechanisms. Failure to do so could cause injury or equipment damage.

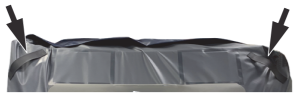
34. Make sure the power cord is in a location where persons will not trip over it, and away from bed mechanisms.

Status Indicator Light

Status	Indicator Light
Green light—identifies that the **MCM** status indicator function is operating correctly.	
Yellow light—identifies a low priority alarm. An error has occurred with the **MCM** status indicator function. See the ***pro+*** *Service Manual* (209197).	
No light—the **MCM** status indicator function is not active. Make sure the surface is plugged into AC power.	

USE THE SURFACE

1. Make sure the siderails operate correctly.
2. Make sure the bed frame is compatible for use with the surface. See "Introduction" on page 1 for a list of compatible bed frames.
3. Put linens on the surface as applicable.
4. Tuck the corners of the flat sheet into the linen holders on the bottom of the surface.



NOTE:
The **VersaCare pro+** surface does not have linen holders.

5. Put the patient in position on the surface:

a. Make sure the patient's heels are toward the foot end of the surface.

b. Make sure the patient is centered on the surface.

c. If the bed has the **FlexAfoot** Retractable Foot Mechanism, set the heel section for the patient's height (see the bed's user manual).

CPR

WARNING:

Warning—Use the bed CPR controls to put the bed in to the CPR position. Failure to do so could cause patient injury.

For CPR, use the bed CPR controls. See the bed's user manual.

Put a CPR board under the patient to provide support while performing CPR on a patient in the bed.

TRANSPORT

WARNING:

Warning—Stow the **MCM** status indicator and surface power cord during bed transport. Otherwise, patient injury could occur.

Before you transport the bed, do these (if applicable):

- Put the **MCM** status indicator between the footboard and surface.
- Correctly stow any power cords and other equipment.

CLEANING AND DISINFECTING

NOTE:
The Cleaning and Disinfecting section of this manual only addresses the **pro+** surface. Refer to the appropriate bed user manual for instructions on how to clean and disinfect the bed.

WARNING:

To help prevent injury and/or equipment damage, obey these **warnings**:

- **Warning**—The surface must be cleaned and disinfected per the cleaning and disinfecting instructions.
- **Warning**—The potential for electrical shock exists with electrical equipment. Failure to follow facility protocol could cause death or serious injury.
- **Warning**—Do not reuse wiping material for multiple steps or on multiple products.
- **Warning**—Harmful cleaning solutions may cause skin rash and/or irritation upon contact. Follow the manufacturer's instructions found on the product label and Safety Data Sheet (SDS).
- **Warning**—Lift and move items correctly. Do not twist, and seek assistance when necessary. Make sure the bed is at a correct height to lift items off the bed.
- **Warning**—Fluid spills on to the surface electronics could cause a hazard. If such a spill occurs, unplug the bed and surface and remove them from service. When fluid spills occur outside of what is seen in normal use, immediately do as follows:
    a. Unplug the bed and surface from its power source.
    b. Remove the patient from the bed.
    c. Clean the fluid spill from the bed system.
    d. Have maintenance examine the system completely.
    e. Do not put the surface back into service until it is completely dry, tested, and found to be safe to operate.

CAUTION:

To help prevent equipment damage, obey these **cautions**:

- **Caution**—Do not steam clean or power wash the surface. Pressure and excessive moisture can damage the protective surface and its electrical components.
- **Caution**—Do not use harsh cleansers/detergents, heavy duty grease removers, solvents such as toluene, xylene, or acetone, and do not use scouring pads (you may use a soft bristle brush).
- **Caution**—Do not use bleach as your primary everyday cleaner/disinfectant.
- **Caution**—If applicable, fully extend the foot section prior to the cleaning and disinfection process.
- **Caution**—Do not launder any surface components.

Recommendations

For proper cleaning and disinfection, users should be trained.

The **trainer** should carefully read the instructions and follow them when the **trainee** is being trained. The trainee should:

- Be given time to read the instructions and to ask any questions.
- Clean and disinfect the product while the trainer supervises. During, and/or after this process, the trainer should correct the trainee of any differences from the instructions for use.

The trainer should supervise the trainee until the trainee can clean and disinfect the bed as instructed.

Baxter recommends to clean and disinfect the surface before first patient use, between patient use, and regularly during extended patient stays.

Some fluids such as iodophor and zinc oxide creams, can cause permanent stains or damage. Remove temporary stains by wiping vigorously with a lightly-dampened wiping cloth.

Cleaning and Disinfection

Cleaning and disinfection are distinctly different processes. **Cleaning** is the physical removal of visible and non-visible soil and contaminants. **Disinfection** is intended to kill microorganisms.

Table 1 below summarizes the approved cleaners/disinfectants for use with the associated contact time for disinfection.

Table 1: Approved Cleaners/Disinfectants

Cleaner/ Disinfectant	Recommended		Maintain Wetness (Disinfection Contact Time)
	Cleaning and Disinfection	Disinfection	
	Routine	Clostridium Difficile (C.Diff)	
Virex II 256 Disinfectant Cleaner	Yes	No	10 minutes
OxyCide Daily Disinfectant Cleaner	Yes	Yes	3 minutes
Clorox HealthCare Bleach Germicidal Cleaner ready-to-use	**No***	Yes	3 minutes
Sani-Cloth Bleach Germicidal Disposable Wipes	**No***	Yes	4 minutes
Super Sani-Cloth Germicidal Disposable Wipes	Yes	No	2 minutes
CaviWipes Disinfectant Wipes	Yes	No	3 minutes
Oxivir Tb Disinfectant Cleaner	Yes	No	10 minutes
Peridox ready-to-use Disinfectant	Yes	Yes	3 minutes

*Do not use bleach as the primary cleaner/disinfectant for the surface.

CAUTION:

Caution—Bleach may result in damage to the surface. Bleach can only be used for 6 applications for the life of the top cover (2 years). For more information, see "Expected Life" on page 95.

Remove any disinfectant residue prior to and after the use of bleach with a new or clean cloth/wipe soaked in tap water.

NOTE:
Not all cleaners and disinfectants listed in Table 1 may be approved for sale in your country. Always refer to the local regulations for applicable approval, listed in Table 1, cleaners and disinfectants. For questions, contact your Baxter representative.

When you perform the detailed cleaning steps, please note the following:

- A microfiber cloth or ready-to use wipe is recommended as the wiping cloth.
- Always replace the wiping cloth when visibly soiled.
- Always replace the wiping cloth between steps (spot clean, clean, and disinfect).
- Always use Personal Protective Equipment (PPE).
- Adjust the bed position, siderails, headboard, and footboard as needed for ease of cleaning and disinfection.

Prepare the Bed and Surface for Cleaning and Disinfecting

a. If applicable, fully extend the foot section.

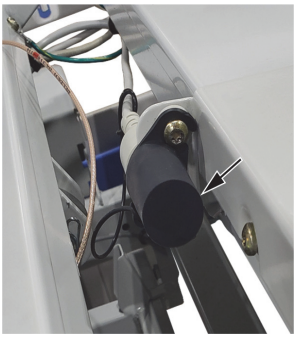
b. Unplug the bed and surface (if applicable).

WARNING:

Warning—Store the status indicator during cleaning and disinfecting of the surface. Failure to do so could cause injury or equipment damage.

c. If applicable, put the **MCM** status indicator in the storage location on either side of the surface.

d. If the integrated **Centrella pro+** surface is removed from the bed, put the connector cover on to the cable connector.



STEP 1: Cleaning

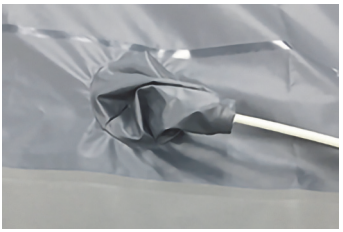
a. As necessary, first remove visible soil from the bed and the surface using a wiping cloth soaked with an approved cleaner/disinfectant (see "Table 1: Approved Cleaners/Disinfectants" on page 87).

- Give special attention to seams and other areas where soil may accumulate.
- A soft bristle brush may be used to loosen hardened soil.
- Use as many wiping cloths as needed to remove the soil.

It is important to remove all visible soil from all areas before continuing to remove non-visible soil.

b. With a new wiping cloth soaked in an approved cleaner/disinfectant, use firm pressure to wipe all surfaces of the bed and **pro+** surface. Use a new or clean wiping cloth as often as necessary. Make sure the following items are cleaned (if applicable):

- Power cord or surface cable and sleeve
- Status indicator cord and sleeve

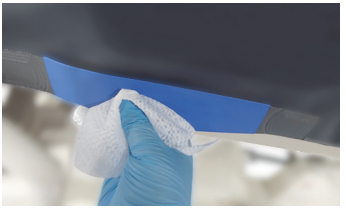


- **MCM** status indicator

- Surface vents on the sides, head, and foot end.

- Surface hooks at the head end—If applicable, slide the surface hooks off the head end of the bed. Clean under the surface and the surface hooks.

- The handles on the sides or bottom of the surface—make sure to clean the underside of the handles and the surface area under the handles.



- Surface - top and bottom
  - For surfaces with a surface foot-end flap, remove the footboard to release the surface. Clean underneath the surface, and both sides of the surface flap (see below).

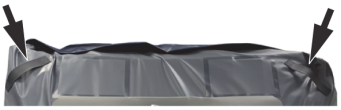
– Clean the underside of the flap that covers the zipper.

WARNING:

Warning—VersaCare Bed—Use extreme care when removing the surface retaining strap. Failure to do so can cause injury as the strap snaps out of the retainers.

– **VersaCare** Bed—Release the surface retaining straps from the bed. Clean underneath the surface, and the surface retaining straps (see below).

– The linen holders on the underside—make sure to clean the underside of the holders and the surface area under the holders.



– If applicable, clean the x-ray sleeve.

c. Examine the following for damage:
   - Top surface cover
   - Bottom surface cover
   - Zipper closure

d. Replace any damaged components.

STEP 2: Disinfection

a. With a new or clean wiping cloth soaked in an approved cleaner/disinfectant, use light pressure to wipe all exterior surfaces of the surface previously cleaned.

b. Make sure all surfaces **remain wet with the cleaner/disinfectant** for the **specified contact time**. **Re-wet** surfaces with a new wiping cloth as necessary. See "Table 1: Approved Cleaners/Disinfectants" on page 87 for the contact time.

NOTE:
If bleach is used with another cleaner/disinfectant, use a new or clean cloth/wipe soaked in tap water to remove any disinfectant residue prior to and after the bleach application.

Prepare the Bed for Use

a. If applicable, secure the surface flap at the foot end of the surface using the footboard.

b. Plug the surface power cord (if applicable) and bed into AC power.

MAINTENANCE

WARNING:

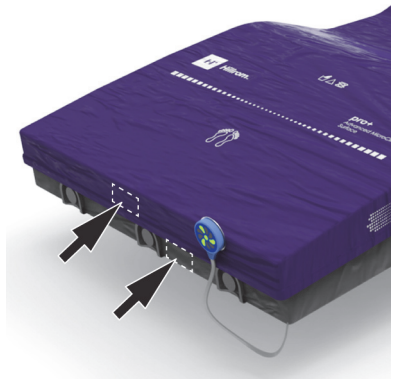
To help prevent injury and/or equipment damage, obey these **warnings**:

- **Warning**—Only facility-authorized persons should service the **pro+** surface.
- **Warning**—Do not use a surface that has a damaged cover or surface core assembly.

Surface Inspection Instructions

1. Look at the product information label on the top and bottom covers to determine the age of the top cover and surface core assembly. The label is on the right side at the foot-end of the top and bottom covers (see below).

NOTE:
The surface has two RFID tags, one in the top cover and the other in the surface core assembly. Baxter Service persons use these tags to locate the product and to determine the ages of the top cover and surface core assembly.



2. Make sure the life expectancy of the top cover and surface core assembly have not been exceeded. See "Expected Life" on page 95 for the life expectancy of these components.
3. If the top cover has not exceeded its life expectancy, examine the outer cover for signs of abrasion, cuts, tears, and fluid ingress.
   a. If the top cover is compromised or fluid ingress is evident—
      – Evaluate the top cover for additional contamination. If contamination is localized, replace the component(s) affected. Refer to the applicable service manual.
      – If the component is not replaceable, discard and replace the top cover.
   b. Check the seams, frame attachments, foot-end flap (if applicable), and zippers for integrity—
      – If a zipper leaves a gap, check for fluid ingress (see step 3a).
4. If the surface core assembly has not exceeded its life expectancy, examine the assembly for fluid ingress and foam delamination (you may need to remove the fire barrier first).
   a. If fluid ingress is evident (see to step 3a)—
      – Examine the inside of the top cover for any signs of fluid ingress. Areas of discoloration are a sign of fluid ingress.
   b. If foam delamination is present, replace the component.
   c. If a deformity is in the foam—
      – Around the edges of the surface, make sure the deformity does not compromise the fit of the surface to frame. This may be determined by evaluating the surface to the *Hospital Bed System Dimensional and Assessment Guide to Reduce Entrapment*.
        https://www.fda.gov/media/71460/download
      – If the deformity is on the surface, determine the amount of deformity by laying a straight edge across the surface and measuring the distance of the largest gap in the patient area.

   NOTE:
   Some deformation is normal as surfaces age.
      – Determine if the deformation is excessive per facility standards. Replace or repair as necessary.

DECOMMISSIONING AND DISPOSAL INSTRUCTIONS

Customers should adhere to all federal, state, regional, and/or local laws and regulations as it pertains to the safe disposal of medical devices and accessories. If in doubt, the user of the device shall first contact Baxter Technical Support for guidance on safe disposal protocols.

- In order to ensure the safe handling and disposal of this product, follow all relevant warnings provided in the service manual regarding possible causes of injury when decommissioning the **pro+** surface.
    - Always ensure that the bed and surface (if applicable) are unplugged before decommissioning.
- The surface should be cleaned and disinfected, as described in the instructions for use, before any other decommissioning activities.
- If the decommissioned **pro+** surface is still fit for use, Baxter recommends donating the decommissioned surface to a charitable organization so that it can be reused.
- If the decommissioned surface is not fit for use, Baxter recommends dismantling the surface in accordance with the instructions provided in the service manual.
- Always check and comply with all local and national regulations and facility protocols when decommissioning a product.

Other components, such as plastics and metals, are recyclable in many local jurisdictions. Baxter recommends recycling all components that can be recycled locally.

Components which cannot be recycled can be disposed of via standard waste disposal procedures.

EXPECTED LIFE

Replace the top cover every 2 years. Look at the product information label to determine the age of the top cover. The label is on the right side of the cover, near the foot end.

Replace the surface every 5 years. Look at the product information label to determine the age of the surface. The label is on the surface right side of the cover, near the foot end.

SERVICE CALLS

When you call Baxter about your surface, be prepared to give the serial number from the product identification label. The product identification labels are on the right side of the top and bottom covers, near the foot end.

When you give the serial number, the Baxter representative can identify your surface and give you the information you need more quickly.

TROUBLESHOOTING/SERVICING

WARNING:

Warning—Only facility-authorized persons should service the **pro+** surface. Service by unauthorized persons could cause injury or equipment damage.

SPECIFICATIONS

Product Identification

Product Number	Description
P7923A01	**pro+** surface with an x-ray sleeve for the **Centrella** Smart+ Bed (integrated, 36" (91 cm) wide)
P7923A02	**pro+** surface with an x-ray sleeve for the **Centrella** Smart+ Bed (integrated, 40" (102 cm) wide)
P7923A03	**pro+** surface for the **Centrella** Smart+ Bed (integrated, 36" (91 cm) wide)
P7923A04	**pro+** surface for the **Centrella** Smart+ Bed (integrated, 40" (102 cm) wide)

Product Number	Description
P7924A01	**pro+** surface with an x-ray sleeve for the **Centrella** Smart+ (non-integrated), **CareAssist** and **Advanta** 2 Beds (36" (91 cm) wide)
P7924A02	**pro+** surface with an x-ray sleeve for the **Centrella** Smart+ (non-integrated) Bed (40" (102 cm) wide)
P7924A03	**pro+** surface for the **Centrella** Smart+ (non-integrated), **CareAssist** and **Advanta** 2 Beds (36" (91 cm) wide)
P7924A04	**pro+** surface for the **Centrella** Smart+ Bed (non-integrated, (40" (102 cm) wide)
P7924A09	**pro+** surface with an x-ray sleeve for the **Centrella** Smart+ (non-integrated) Bed, for Australia and New Zealand (40" (102 cm) wide)
P7924A10	**pro+** surface with an x-ray sleeve for the **Centrella** Smart+ (non-integrated), **CareAssist** and **Advanta** 2 Beds, for Australia and New Zealand (36" (91 cm) wide)
P3255A01	**pro+** surface with an x-ray sleeve for the **VersaCare** Bed (long power cord)
P3255A02	**pro+** surface for the **VersaCare** Bed (long power cord)
P3255A03	**pro+** surface with an x-ray sleeve for the **VersaCare** Bed (short power cord)
P3255A04	**pro+** surface for the **VersaCare** Bed (short power cord)
P3255A05	**pro+** surface with an x-ray sleeve for the **VersaCare** Bed, for Australia and New Zealand (long power cord)
P006800A01	**pro+** surface with an x-ray sleeve for the **900** Bed
P006800A02	**pro+** surface for the **900** Bed
P006800A03	**pro+** surface with an x-ray sleeve for the **900** Bed, for Australia and New Zealand

Surface Specifications

Feature	Dimension
Length[a]	80" (203 cm) or 76" - 87.5" (193 cm - 222 cm)
Width[b]	35.5" (90 cm) or 38.5" (98 cm)
Height[c]	8.5" (22 cm) or 9" (23 cm)

Feature	Dimension
Weight	48-52 lb (22-24 kg)

a. The 80" (203 cm) length surface is for the **900** Bed with split siderails. The 76" - 87.5" (193 cm - 222 cm) length is for the other beds listed on page 1.
b. The 38.5" (98 cm) wide surface is for the 40" (102 cm) wide **Centrella** Smart+ Bed.
c. The 8.5" (22 cm) height surface is for the **VersaCare** Bed. The 9" (23 cm) height is for the other beds listed on page 1.

Environmental Conditions for Use

Condition	Range
Temperature	41°F to 95°F (5°C to 35°C)
Relative humidity	20% to 85%
Pressure	70 kPa to 106 kPa

Environmental Conditions for Transport and Storage

Condition	Range
Temperature	-20°F to 140°F (-29°C to 60°C)
Relative humidity	15% to 90%
Pressure	50 kPa and 106 kPa

AC/Mains Power Requirements

Condition	Range
Rated voltage	100 - 240 V AC
Power/input	0.75 A
Frequency	50 - 60 Hz

There are no user accessible fuses. Refer to the ***pro+*** *Service Manual* (209197) for fuse ratings and replacement procedures.

Applied Parts (in accordance with IEC 60601-1)

Applied parts	Applied parts
Matress top cover	Surface bottom cover
Status indicator (non-integrated surface)	Surface cable connector (integrated surface)

Classification and Standards

Classification	Standard
Technical and quality assurance standards	AAMI ES 60601-1 IEC 60601-1 IEC 60601-1-8 ISO 10993-1 ISO10993-5 ISO 10993-10 CAN/CSA-C2.22 No. 60601-1
Degree of protection against electric shock	IPX4

Flammability Codes—United States and Canada

All **pro+** surfaces meet the applicable United States and Canadian flammability specifications.

Electromagnetic Emissions Guidance

CAUTION:

Caution—This device meets all requirements for electromagnetic compatibility per IEC 60601-1-2. It is unlikely that the user will encounter problems with this device because of inadequate electromagnetic immunity. However, electromagnetic immunity is always relative, and standards are based on anticipated environments of use. If the user observes unusual device behavior, particularly if such behavior is intermittent and associated with nearby use of radio or TV transmitters, cell phones, or electro-surgical equipment, this could be an indication of electromagnetic interference. If such behavior occurs, the user should try to move the interfering equipment further from this device.

WARNING:

To help prevent injury and/or equipment damage, obey these **warnings**:

- **Warning**—The **pro+** surface should not be used adjacent to or stacked with other electrical equipment. If adjacent or stacked use is necessary, observe the **pro+** surface and the other electrical equipment to make sure they operate as intended.

WARNING:

(Warnings continued) To help prevent injury and/or equipment damage, obey these **warnings**:

- **Warning**—Make sure the **pro+** surface operates correctly when it is used near other electronic devices. Portable and mobile radio frequency (RF) communications equipment can affect electrical equipment.
- **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.

Medical equipment needs special precautions in regard to electromagnetic compatibility (EMC) and needs to be installed and put into service according to the EMC information supplied in the tables that follow.

Guidance and Manufacturer's Declaration - Electromagnetic Immunity

The **pro+** surface is intended for use in the electromagnetic environment specified below. The customer or the user of the **pro+** surface should make sure it is used in such an environment.

Emissions Test	Compliance	Electromagnetic Environment —Guidance
RF Emissions CISPR 11	Group 1	The **pro+** surface uses RF energy only for its internal functions. Therefore, its RF emissions are low and are not likely to cause any interference in nearby electronic equipment.
RF Emissions CISPR 11	Class A	The **pro+** surface is suitable for use in all establishments other than domestic establishments, and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
Harmonic Emissions IEC 61000-3-2	Class A	
Voltage Fluctuations/ Flicker Emissions IEC 61000-3-3	Complies	

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

Electromagnetic Immunity Guidance

Guidance and Manufacturer's Declaration - Electromagnetic Immunity			
The **pro+** surface is intended for use in the electromagnetic environment specified below. The customer or the user should make sure it is used in such an environment.			
Immunity Test	**IEC 60601 Test Level**	**Compliance Level**	**Electromagnetic Environment—Guidance**
Electrostatic Discharge (ESD) IEC 61000-4-2	± 8 kV Contact ± 2 kV, 4 kV, ±8 kV, and ± 15kV Air	± 8 kV Contact ± 2 kV, ± 4 kV, ±8 kV, ± 15 kV Air	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 (100 kHz repetition frequency) for Power Supply Lines	± 2 kV (100 kHz repetition frequency) for Power Supply Lines	Mains power quality should be that of a typical hospital 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 Ground	± 0.5 kV, ±1 kV Line(s) to Line(s) ±0.5 kV, ±1 kV, ± 2 kV Line(s) to Ground	Mains power quality should be that of a typical hospital environment.
Voltage Dips, IEC 61000-4-11	< 0% U_T: 0.5 cycle At 0°, 45°, 90°, 135°, 180°, 225°, 270°, and 315° 0% U_T: 1cycle and 70% U_T: 25/30 cycles Single phase: at 0° (see note)	< 0% U_T: 0.5 cycle At 0°, 45°, 90°, 135°, 180°, 225°, 270°, and 315° 0% U_T: 1cycle and 70% U_T: 30 cycles Single phase: at 0° (see note)	Mains power quality should be that of a typical hospital environment. If the user of the **pro+** surface requires continued operation during power mains interruption, it is recommended that the **pro+** surface be powered from an uninterpretable power supply.
Voltage interruption IEC 61000-4-11	0% U_T: 250/300 cycles	0% U_T: 300 cycles	
Power Frequency Magnetic Field IEC 61000-4-8	30 A/m 50 Hz and 60 Hz	30 A/m 50 Hz and 60 Hz	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical hospital environment.
Proximity Magnetic Fields IEC 61000-4-39	30 kHz, CW, 8 A/m 134.2 kHz, 50% Pulse at 2.1 kHz, 65 A/m 13.56MHz, 50% Pulse at 50 kHz, 7.5 A/m	30 kHz, CW, 8 A/m 134.2 kHz, 50% Pulse at 2.1 kHz, 65 A/m 13.56MHz, 50% Pulse at 50 kHz, 7.5 A/m	

Guidance and Manufacturer's Declaration - Electromagnetic Immunity

The **pro+** surface is intended for use in the electromagnetic environment specified below. The customer or the user should make sure it is used in such an environment.

Immunity Test	IEC 60601 Test Level	Compliance Level	Electromagnetic Environment—Guidance
Conducted RF IEC 61000-4-6	3 V 0.15 MHz - 80 MHz 6 V in ISM bands between 0.15 MHz and 80 MHz 80% AM at 1 kHz	3 V 0.15 MHz - 80 MHz 6 V in ISM bands between 0.15 MHz and 80 MHz 80% AM at 1 kHz	Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey[a], should be less than the compliance level in each frequency range. Interference may occur in the vicinity of equipment marked with this symbol. 
Radiated RF IEC 61000-4-3	3 V/m 80 MHz to 2.7 GHz 80% AM at 1 kHz	10 V/m 80 MHz to 2.7 GHz 80% AM at 1 kHz	

NOTES:

- These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.
- U_T is the AC mains voltage prior to application of the test level.

a. Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the **pro+** surface is used exceeds the applicable RF compliance level above, the **pro+** surface should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the **pro+** surface.

IMMUNITY to Proximity Fields from Radio Frequency Wireless Communications Equipment

In addition to the Radiated RF IEC 61000-4-3 as shown in the table above, the Surface has been tested as specified in the table below.

Test Frequency (MHz)	Band (MHz)	Service	Modulation	Maximum Power (W)	Distance (m)	Immunity Test Level (V/m)
385	380-390	TETRA 400	50% PM, 18 Hz	1.8	0.3	27
450	430-470	GMRS 460; FRS 460	50% PM, 18 Hz	2	0.3	28
710	704-787	LTE Band 13, 17	50% PM, 217 Hz	0.2	0.3	9
745						
780						
810	800-960	GSM 800/900; TETRA 800; iDEN 820; CDMA 850; LTE Band 5	50% PM, 18 Hz	2	0.3	28
870						
930						
1720	1700-1990	GSM 1800; CDMA 1900; GSM 1900; DECT; LTE Band 1, 3, 4, 25; UMTS	50% PM, 217 Hz	2	0.3	28
1845						
1970						
2450	2400-2570	**Bluetooth**; WLAN 802.11 b/g/n; RFID 2450; LTE Band 7	50% PM, 217 Hz	2	0.3	28
5240	5100-5800	WLAN 802.11 a/n	50% PM, 217 Hz	0.2	0.3	9
5500						
5785						

NOTES:

- For frequencies above 1 GHz, the transmitting antenna distance was reduced to 1m as permitted by the IEC/EN60601-1-2 and UEC/EN61000-4-3 Standards
- As an alternative to FM modulation, 50% pulse modulation at 18 Hz mat be used because while it does not represent actual modulation, it would be worst case as permitted by the standard (Table 9 of IEC 60601-1-2: 2014).

Recommended separation distances between portable and mobile RF communications equipment and the pro+ surface

The **pro+** surface is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the **pro+** surface can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the **pro+** surface 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√ P**	80 MHz to 800 MHz ***d* = 1.2√ P**	800 MHz to 2.5 GHz ***d* = 2.33√ 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.


Baxter