
USER MANUAL

Affinity® Three Birthing Bed and Affinity® Four Birthing Bed

From Hill-Rom



Product No. P3700

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NOTE:

Replace this manual (USR025) if it is damaged and/or can not be read.

Reference Documents

Affinity® Three Birthing Bed and Affinity® Four Birthing Bed Service Manual (MAN272)

Affinity® Four Birthing Bed—Unpacking Instructions (IS484)

Table of Contents

Intended Use	1
Introduction	1
Symbols	2
Features	10
Automatic Tilt	11
Battery Backup	11
Bed Controls	12
Back Section Lumbar Mattress Control (Optional)	12
Bed Up/Bed Down (Hilow)	13
Foot Section	13
Head Section	14
Nurse Call (Optional)	14
Seat Section Mattress Control (Optional)	14
TV On/Off (Optional)	15
Mattress Models	15
Central Brake and Steer	15
CPR Release	16
Fluid Basin	16
Foot Section (Lift-Off or Slide-Off)	17
Stow and Go™ Foot Section	18
OneStep® Foot Supports	19
Headboard	20
IV Pole	20
Labor Grips	20
Lockout Controls	20
Night Light	20
Siderails	21
Trend-Like Function	21
Optional Features	22
Air Support System	22
Siderail Controls	22
Wood Headboards	23
Casters	23
Calf Support	23
Mattresses	23
Surfaces with nano Ag+® Technology with SmartSilver® Ions	23
Non-Air Mattress	24
Tempur-Pedic® Mattress	24
Accessories	25

Anesthesia Screen—P9625	27
Arm Board—P9620 2.	7
Calf Supports—P3704, P3705A, and P35745A	27
Calf and Foot Support Upgrade Kit—P3715	28
Tempur-Pedic® Comfort Pad—P3612TPA	28
Disposable Standard and Funnel Drapes—P7831 and P7834	28
Foley Hook Kit—P3623	28
Foot Rest Bar—P451A	28
Full Leg Supports—P7625C and P7634C	29
Headboards—P3617, P3629, P92-3617 and P93-3617	29
Instrument Tray—P278B (no longer available)	29
Infusion Support System (ISS)—P158A and P159	30
Labor Bar—P3613B	30
Mirror—P1505	30
O ₂ Tank Holder—P27605	30
Pendant Control Kit with Holder—P5362	30
Permanent IV Pole—P222101	31
Procedural Light—P7925D120	31
Procedural Stool—P11824 (no longer available)	31
Rail and Hanger—P53120120 and P17073001	31
Sheets—SA1528, SA4585, SA1529, and SA4586	31
Slipcovers (Head and Foot)—P3628C, P3627C, P3630B and P3631B	32
Slipcover Upgrade Kits—P3730A and P3731A	32
Push Handles—P1983A01	32
Line Manager—P3733A	33
Permanent IV Pole—P3732A	34
Patient Positioning—Labor and Birth	36
Upright Position/Voiding Position	36
Lateral Position (Sims)	36
Kneeling Position	36
Legs Elevated With Foot Mattress	37
Squatting With The Labor Bar	37
Pushing With The Labor Bar	37
Pushing With The Labor Bar (With Foot Supports)	37
Pushing with Calf Supports	38
Epidural/Spinal (Lateral Approach)	38
Epidural (Sitting Approach)	38
Straight Line Trend-Like Positioning	38
Throne Position (Chair)	39
Birthing Bed Mode	39

Delivery Table Mode	39
High Modified Trend-Like Position (Birth And Repair)	40
Safety Tips	41
Clean and Disinfect	47
Clean	48
Disinfect	48
Care of Wood Components	48
Mattress Care and Draping	49
Specifications	50
Electromagnetic Emissions Guidance	53

Intended Use

The Affinity® Three Birthing Bed and Affinity® Four Birthing Bed are intended to be used as birthing beds for women of child bearing age in an LDR (Labor, Delivery, Recovery) or LDRP (Labor, Delivery, Recovery, Postpartum) setting within the acute care Labor and Delivery market. They are not intended for use as a general hospital beds.

The intended users of this product are healthcare employees who have been trained to use the product, and who have the physical strength and cognitive skills to operate and control the product. There are some controls and features on the bed intended to be used by the patients and family members upon appropriate orientation by the caregiver. Follow facility safety protocols if an intended user does not have the physical strength or cognitive skills to operate and control the product safely.

The maximum patient weight is 470 lb (213 kg).

The bed safe working load is 500 lb (227 kg).

Safe working load: includes mattresses, headboard, patient weight, any accessories or equipment on the bed, caregiver weight, and any visitors sharing the bed.

There are no known Contraindications for this product.

Introduction

This manual provides the information required for normal operation of the Affinity® Three Birthing Bed and Affinity® Four Birthing Bed from Hill-Rom. Before operating the Affinity® Three Birthing Bed and Affinity® Four Birthing Bed, be sure that you have read and understood in detail the contents of this manual. It is important that you read and strictly adhere to the aspects of safety contained in this manual. Any reference to a side of the bed is from the patients' view lying in the bed on their back.

In this manual, there are references to different bed models. To identify which model of bed you have, look at the serial number label. The label is located on the main frame at the head end. For example, P3700BXXXX identifies a B model bed.



Symbols

Symbols

Document Symbols





This symbol is used throughout the **manual** to identify a WARNING or CAUTION:






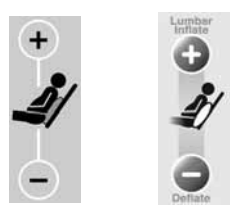

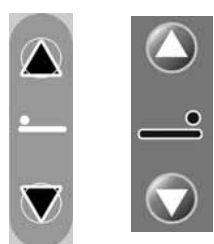


- WARNING identifies situations or actions that may have an effect on patient or user safety. To ignore a warning could cause patient or user injury.
- CAUTION identifies special procedures or precautions that persons must obey to help prevent equipment damage.


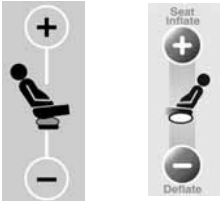

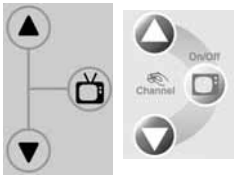



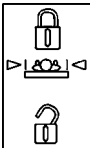
Product Symbols

These symbols are on the **product** and may or may not be on your model of the Affinity® Three Birthing Bed and Affinity® Four Birthing Bed:

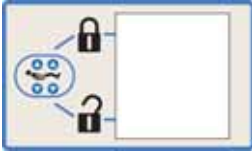
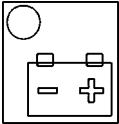
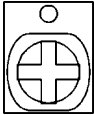





Symbol	Description
	Type B applied part according to IEC 60601-1 (UL 60601-1)
IPX2	According to IEC 60529, rating for protection against fluid ingress and identified as equipment that is protected against vertically falling water when tilted up to 15°. A through D model beds.
IPX 4	According to IEC 60529, rating for protection against fluid ingress and identified as equipment that is protected against vertically falling water when tilted up to 15°. E model and newer beds.
	WARNING: Consult accompanying documents. Yellow and black. E model and newer beds.
	CAUTION: Consult accompanying documents. White and black. E model and newer beds.
	CAUTION: Consult accompanying documents. A through D model beds.

Symbol	Description
	Conforms to the European Medical Device Directive 93/42/EEC. The CE mark was first applied in 2000.
	Warning: Do Not Use with Oxygen Tents—Must consult accompanying documentation—indicates the use of oxygen administering equipment of the nasal, mask, or ventilator type only or oxygen tents that can be contained inside the siderails. Can be green or blue.
	Certified by Underwriters Laboratory in accordance with UL 2601-1 (UL 60601-1), CAN/CSA C22.2 NO.601.1, EN 60601-1, IEC 601-2-38 and IEC 601-1-2.
	Room Light On/Off control. A through D model beds.
	Room Light On/Off control. E model and newer beds.
	Back section mattress (lumbar) control. A through D model beds.
	Back section mattress (lumbar) control. E model and newer beds.
	Bed Up/Bed Down control


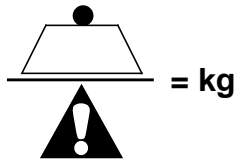
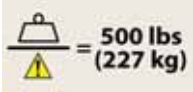
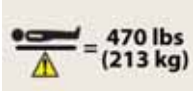




Symbols

Symbol	Description
	Foot and head sections Up/Down controls
	Seat section mattress control (optional). A through D model beds.
	Seat section mattress control (optional). E model and newer beds.
	TV On/Off/Audio control (optional). A through D model beds.
	TV On/Off/Audio control (optional). E model and newer beds.
	CPR function—Identifies the release lever that can be used to manually drop the inclined head section, in order that cardiopulmonary resuscitation can be performed without delay. A through D model beds.
	CPR function—Identifies the release lever that can be used to manually drop the inclined head section, in order that cardiopulmonary resuscitation can be performed without delay. E model and newer beds.
	Lockout control label—The switch in the up position indicates the lockout control is on . The switch in the down position indicates the lockout control is off (refer to the section titled “Lockout Controls” on page 20 for lockout status information). A through D model beds.

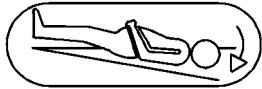








Symbols

Symbol	Description
	Lockout control label—The switch in the up position indicates the lockout control is on . The switch in the down position indicates the lockout control is off (refer to the section titled “Lockout Controls” on page 20 for lockout status information). E model and newer beds.
	Battery charge status (refer to the section titled “Battery Backup” on page 11 for battery status information).
	Nurse call (refer to the section titled “Nurse Call (Optional)” on page 14 for nurse call switch information).
	Lockout control status—when the lockout control status light is on, the lockout function is activated.
	Identifying mains fuse.
	Caution: Identifying power inlet fuse or a battery power inlet fuse. Consult accompanying documentation. E model and newer beds.
	Alternating current
	Equipotentiality. Beds with grounding post only. A through E model beds.








Symbols

Symbol	Description
	Warning: Protective earth ground—Must consult accompanying documentation. Beds with grounding post only. E model and newer beds.
	Safe working load. A through D model beds.
	Warning: Bed safe working load. E model and newer beds.
	Warning: Maximum patient weight. E model and newer beds.
	Warning: Safe working load—foot section only. Must consult accompanying documents. E model and newer beds.
	Electric shock hazard. A through D model beds.
	Warning: Electrical shock hazard. Must consult accompanying documents. E model and newer beds.
	Warning: Use hospital grade receptacle only. Must consult accompanying documents. Beds without grounding post only. E model and newer beds.



Symbols

Symbol	Description
	Trend-Like function. A through D model beds.
	Trend-Like function. E model and newer beds.
 Pb	Do not throw away—indicates the need to recycle the item in accordance with local regulations.
	Keep feet clear of this area. do not step on the Stow and Go® Foot Section. Potential for injury. A through D model beds.
	Do not step—do not step on the Stow and Go® Foot Section. Blue and black is for A through D model beds. Red and black is for E model and newer beds.
	Warning—Do not step (located on the base frame). Blue and black is for A through D model beds. Red and black is for E model and newer beds.
	Lock and unlock position of the calf support. A through D model beds.
	Lock and unlock position of the calf support. E model and newer beds.
	Calf support release lever. A through D model beds.

Symbols

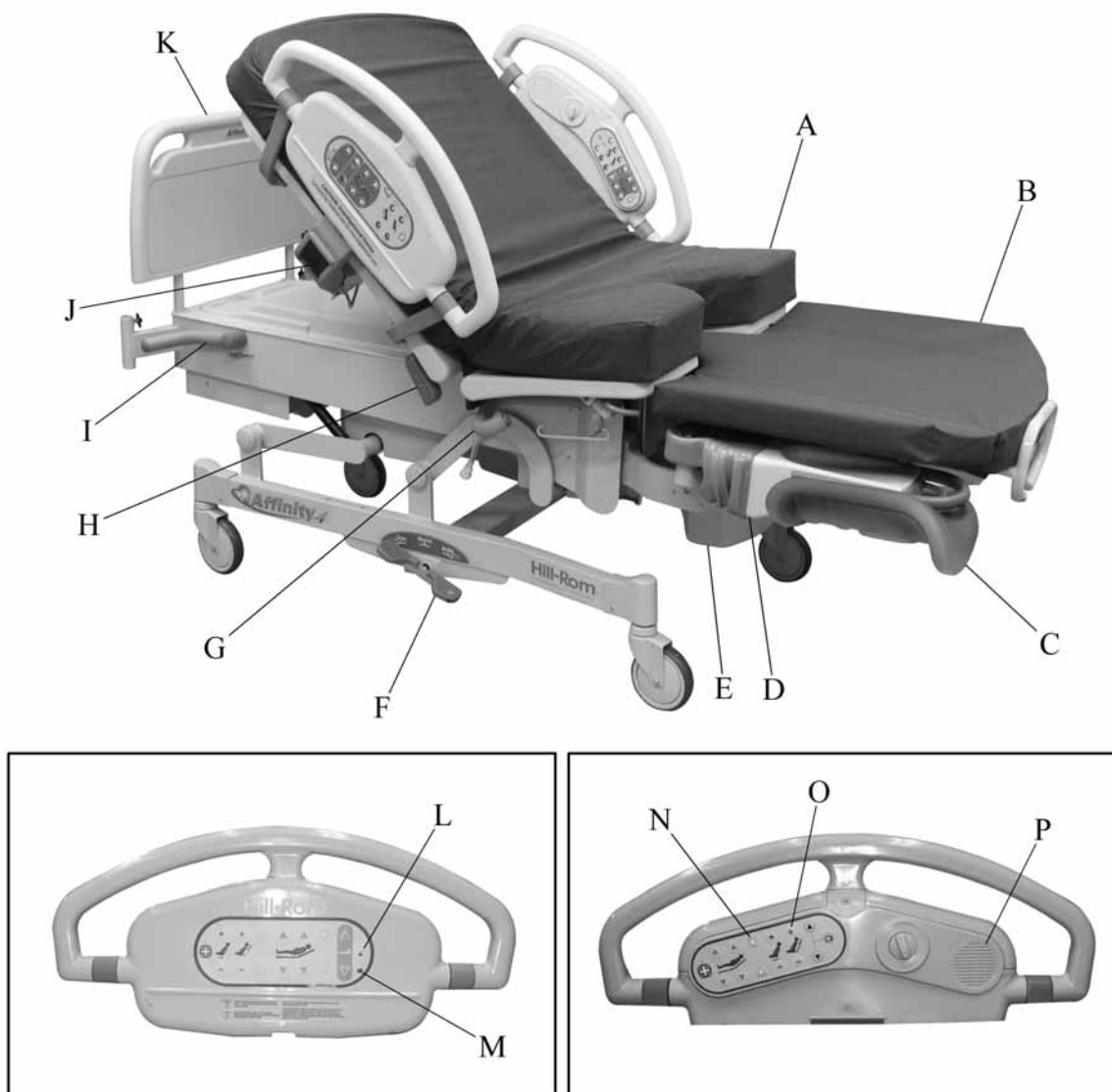
Symbol	Description
	Calf support release lever. E model and newer beds.
	Transport label. A through D model beds.
	Warning: Transport label. Must consult accompanying documents. E model and newer beds.
	Shows that you should not hang power cords on the Line Managers.
	Do Not Push—do not use the headboard to push the bed. On wood headboards without integrated push handles.
	Warning: Engage foot section latch—Stow and Go® Beds. Must consult accompanying documents. E model and newer beds.
	Warning: Lift-off foot section—engagement advisory. Must consult accompanying documents. E model and newer beds.

Symbols

Symbol	Description
	Caution: Connect to approved communication system only. Consult accompanying documents. E model and newer beds.
	Warning: Must consult accompanying documents. On the pendant and calf support. E model and newer beds.

Features

Features



Caregiver-Side Control

Patient-Side Control

Item	Description	Item	Description
A	V-cut or straight-cut mattress	I	8° trend-like position
B	Lift-off, Stow and Go™ Foot Section or Slide off foot section ^a	J	One-handle siderail release
C	EasyGlide® Calf Supports	K	Removable headboard
D	OneStep® Foot Supports	L	Lockout indicator
E	Fluid basin	M	Battery indicator
F	Central brake and steer pedal	N	Siderail lighting control (optional)
G	Storable labor grips	O	Air support system (optional)
H	CPR feature	P	Siderail communications package (optional)

a. Slide off foot section no longer available.

Automatic Tilt

- As the head section is raised, the seat section gradually tilts up from 0° to 15°.
- As the head section is lowered, the seat section gradually returns to a flat position.



Battery Backup

The Affinity® Three Birthing Bed and Affinity® Four Birthing Bed are designed with battery backup as a standard feature. The battery allows the hilow, foot, and head motors to be activated from the siderail controls without power being supplied to the bed. In addition, the battery backup powers the nurse call function, but it does not power any other bed functions, such as the optional air support system.

Location: The battery backup indicator is located on the siderail to indicate the battery condition.

Battery Backup LED Indicators (while connected to AC power):

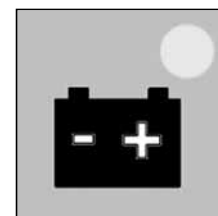
- ON = Battery is charging.

Battery Backup LED Indicators (while on battery power):

- ON = Battery status is operational.
- FLASHING = Battery needs charging.
- OFF = Battery is discharged below the level required to run the motors.

NOTE:

If the battery has been completely discharged, it may take up to 36 hours to recharge to operational status.



Battery Backup Indicators

Features



CAUTION:

Remove the battery if the bed will not be in service for extended periods of time. Failure to do so could result in damage to the life of the battery, or damage to the bed. Contact the appropriate maintenance personnel, and refer to the *Affinity® Three Birthing Bed and Affinity® Four Birthing Bed Service Manual* (MAN272).

To ensure the battery is always charged, plug the bed into the appropriate power source whenever possible.

Bed Controls

The bed is electrically operated using siderail or pendant controls. The hilow, head, and foot functions can be operated by battery backup, if necessary.

Affinity® Three Birthing Bed



Nurse Control Panel



Patient Control Panel

Affinity® Four Birthing Bed (B through D model beds)



Nurse Control Panel



Patient Control Panel

Affinity® Four Birthing Bed (E model beds)



Nurse Control Panel



Patient Control Panel

Back Section Lumbar Mattress Control (Optional)

The *Back Section Mattress (Lumbar)* control enables you to inflate or deflate the back section lumbar mattress in order to attain a degree of firmness or softness.

Location: Caregiver and patient siderails (right hand and left hand)

To Activate:

- To inflate the back section, press and hold the *Back Firm* button (plus sign) until the desired firmness is attained.
- To deflate the back section, press and hold the *Back Deflate* button (minus sign) until the desired softness is attained.



*Back Section
Mattress Controls*

Bed Up/Bed Down (Hilow)



CAUTION:

Make sure the bed does not touch the wall at the head end. When the bed is raised, it moves slightly towards the head end. If the bed is too close to the wall, damage could occur.

The *Bed Up/Bed Down* controls located on both siderails allow you to raise or lower the bed 16" (41 cm). The low position is for general use and to assist with patient egress, while the high position is used for patient procedures.

Location: Caregiver siderail (right hand and left hand)

To Activate:

- Press and hold the *Bed Up* button to raise the bed.
- Press and hold the *Bed Down* button to lower the bed.



WARNING:

Leave the bed in the low position when the patient is unattended. This can reduce the possibility of patient falls and the severity of any resultant injuries.

NOTE:

If the foot section is at its lowest position when the bed is lowered, the bed will stop at a higher position to ensure that the foot section does not interfere with the base.

NOTE:

If the bed is in the low position and the Trend-Like function is activated, the bed will rise to the appropriate height to allow the bed to move to the full Trend-Like position.

Foot Section

The *Foot Up/Foot Down* controls located on both siderails enable you to raise or lower the foot section of the bed 9" (23 cm) of travel from its lowest position.

Location: Caregiver and patient siderails (right hand and left hand).

The *Foot Up/Down* buttons are the arrows located on the right side of the label.



WARNING:

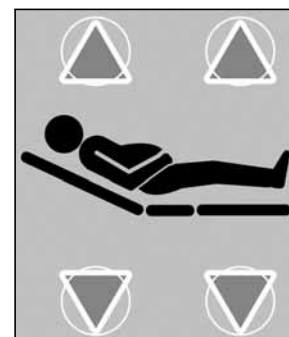
When the labor grips and calf supports are in position for use, be careful when you lower the foot section. Failure to do so could cause the patient's hands to become trapped between the labor grip and calf support.

To Activate:

- Press and hold the *Foot Up* button to raise the foot section of the bed.
- Press and hold the *Foot Down* button to lower the foot section of the bed.

NOTE:

If the foot section is at its lowest position when the bed is lowered, the bed will stop at a higher position to ensure that the foot section does not interfere with the base.



Foot Section Controls

Features

Head Section

The *Head Up/Head Down* controls located on both siderails enable you to raise or lower the head section of the bed. The head section can be raised to any angle of inclination up to 63°.

Location: Caregiver and patient siderails (right hand and left hand)
The *Head Up/Down* buttons are the arrows located on the left side of the label.

To Activate:

- Press and hold the *Head Up* button to raise the head section of the bed.
- Press and hold the *Head Down* button to lower the head section of the bed.



Head Section Controls

Nurse Call (Optional)

On beds equipped with the optional nurse call feature, use the *Nurse Call* button to place a call to the nurse call system. Above the *Nurse Call* button, the *Call* indicator light illuminates and flashes on the patient's siderail controls, indicating a call has been made.

Location: Caregiver and patient siderails (right hand and left hand)

To Activate:

- Press and release the *Nurse Call* button.
- The LED indicator above the switch will flash indicating that the patient placed a nurse call. When the nurse answers, the LED indicator will turn on solid. The nurse may then talk to you and you may speak into the speaker /microphone.



Nurse Call Button



CAUTION:

If power to the bed is lost, the nurse call function can still operate up to 4 hours depending on the charge of the battery. Before becoming completely non-functional, the system will place a non-cancellable nurse call.

NOTE:

The *Nurse Call* controls cannot be locked out.

Seat Section Mattress Control (Optional)

The *Seat Section Mattress Control* enables you to inflate or deflate the seat section mattress in order to attain a degree of firmness or softness.

Location: Caregiver and patient siderails (right hand and left hand)

To Activate:

- To auto-inflate the seat section, press the *Caregiver Seat Inflate* Button (plus sign). To cancel the auto-inflate function, press the *Caregiver Seat Inflate* Button (plus sign) again.
- To auto-deflate the seat section, press the *Caregiver Seat Deflate* Button (minus sign). To cancel the auto-deflate function, press the *Caregiver Seat Deflate* Button (minus sign) again.
- To inflate or deflate the seat section from the patient controls, press and hold the *Patient Seat Inflate* Button (plus sign) or the *Patient Seat Deflate* Button (minus sign).



Seat Section Mattress Controls

NOTE:

The auto-inflate function runs for 20 to 25 seconds before shutting off.

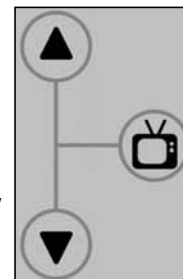
TV On/Off (Optional)

The TV on/off button turns on and off the audio for the television and radio.

Location: Patient siderail control panel (right hand and left hand)

To Activate: Press and release the TV button. The television and radio audio come on. The television and radio volume controls on the patient siderail control panels are now operational.

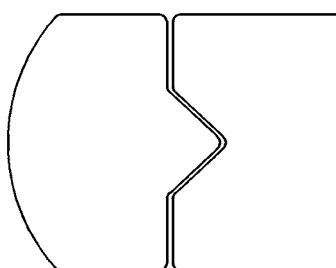
To Deactivate: Press and release the TV button. The green indicator light goes off, and the television and radio audio are muted.



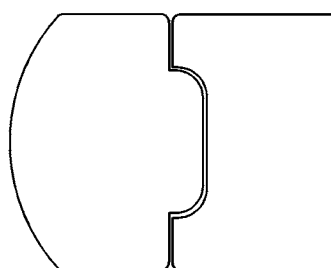
On/Off Buttons

Mattress Models

The bed is available in two options: the V-Cut or Straight-Cut.



V-Cut



Straight-Cut

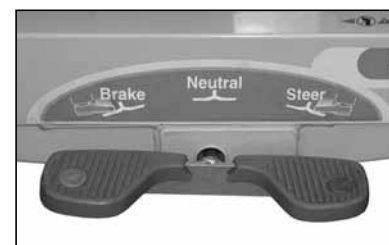
Central Brake and Steer



CAUTION:

Make sure the bed does not touch the wall at the head end. When the bed is raised, it moves slightly towards the head end. If the bed is too close to the wall, damage could occur.

The Affinity® Three Birthing Bed is equipped with 2-wheel braking and 1-wheel steering.



Affinity® Three

The Affinity® Four Birthing Bed is equipped with 4-wheel braking and 1-wheel steering.



or



Affinity® Four

Features

To Activate:

- To brake, press down firmly on the *Brake Pedal*. Casters will immediately lock into place. Push and pull on the bed to ensure the brakes are set. To release, press firmly on the *Steer Pedal* until both pedals are level (neutral position).
- To steer, press down firmly on the *Steer Pedal*. To release, press firmly on the *Brake Pedal* until both pedals are level (neutral position).



WARNING:

Make sure the brakes are set when transferring a patient to or from the bed. Failure to do so could cause the bed to move during the transport, which could cause personal injury.

CPR Release

The CPR Release enables the caregiver to save valuable time in an emergency. When activated, the CPR Release automatically lowers the head and seat section to the flat position, which creates a firm surface to support a CPR board.

To Activate:

Pull the emergency CPR Release handle on either side of the bed.
Release your hand when the head section is down to the lowest position.



Emergency CPR Release Handle

Fluid Basin

The fluid basin is reversible and easily removed for cleaning.

To Remove/Replace the lift-off or slide-off foot section fluid basin:

- Pull the fluid basin straight out.
- Slide the basin straight into the holding devices.
- Shake the basin gently to ensure it is securely seated.

Lift-off Fluid Basin



To Remove/Replace the Stow and Go™ Foot Section fluid basin:

- Pull the basin up and out of the foot section.
- Put the basin down in to the opening in the foot section.

Stow and Go™ Foot Section Fluid Basin



Foot Section (Lift-Off or Slide-Off)

To Remove: The foot section can be removed by using the following methods:

If the foot section height can be adjusted:

- Adjust the foot section so that the top of the mattress is about waist high.
- Turn the mattress wings inward.
- Pivot the foot supports laterally.
- **Affinity® Three Birthing Bed**—grasp and hold the foot section, between the snaps, as close to the body as possible.
- **Affinity® Four Birthing Bed**—grasp the handles, and hold the foot section as close to the body as possible.
- **Lift-Off Foot Section:** Lift and slide the foot section toward you (bending your knees) while taking a step backward.
- **Slide-Off Foot Section:** Squeeze the release levers to disengage the foot section, and slide the section toward you (bending your knees) while taking a step backward.
- **Lift-Off Foot Section (Affinity® Three Birthing Bed):** Turn the top of the foot section up, and, with the knees bent, put it on the floor with the stand down to hold it upright.
- **Lift-Off Foot Section (Affinity® Four Birthing Bed):** With the knees bent, place it on the floor with the perineal stand down to hold it upright.



Affinity® Three Birthing Bed



Affinity® Four Birthing Bed

If the foot section is well below the waist and cannot be adjusted:

- Turn the mattress wings inward.
- Pivot the foot supports laterally.
- Approach the foot section from an angle (side or front).
- Place one leg forward and one leg back, bending the knees slightly.
- **Affinity® Three Birthing Bed**—grasp and hold the foot section, between the snaps, as close to the body as possible.
- **Affinity® Four Birthing Bed**—grasp the handles, and hold the foot section as close to the body as possible.
- **Lift-Off Foot Section:** Lift and slide the foot section toward you while taking a step backward.
- **Slide-Off Foot Section:** Squeeze the release levers to disengage it, and slide the foot section toward you while taking a step backward.



Features

- Turn the foot section so the stand is down and, with the knees bent, place it on the floor.

To Install:

- Grasp the foot section with both hands.
- Position the foot section onto the mounting brackets located on the bed frame.
- **Lift-Off Foot Section:** While holding the foot section level, lift and slide it until the latches securely engage and a level surface is achieved.
- **Slide-Off Foot Section:** While holding the foot section level, push it until the latches securely engage and a level surface is achieved.
- Pull on the foot section to ensure that it is locked into position.



NOTE:

If the foot section is not level, this is an indication that it is not locked into position.

- Lift the foot section to the level position and push until the latches securely engage.



WARNING:

The foot section must be fully secured under the mattress to provide safe support. Possible personal injury or equipment damage could occur.

The foot section must be locked into place. Pull to ensure that the latch is engaged.



Foot Section Not Locked Into Position

Stow and Go™ Foot Section

The Stow and Go™ Foot Section is only available on the Affinity® Four Birthing Bed.

To Remove:

- Adjust the foot section so that the top of the mattress is about waist high.
- Pivot the foot supports laterally.
- Fold up the sides of the foot section mattress.



- Grasp the handles on the side of the foot section mattress, and lift the mattress off the foot section. Or grasp the pull strap at the end of the mattress and pull the mattress away from the bed.
- Put the mattress in an applicable location off of the bed.
- Grasp the foot section by the handle.
- Raise the end of the foot section up. The foot section will start to slide down under the bed.
- Lower the back edge of the foot section until it stops.
- Push the foot section under the bed until it stops.

**WARNING:**

Make sure the foot section is securely locked in place when you install the mattress. Failure to do so could cause injury.

To Install:

- Grasp the handle on the foot section.
- Pull up on the foot section until it locks into position.
- Put the mattress on the foot section.
- Make sure the mattress catch goes into the foot section catch.
- Push the foot end of the mattress down in front of the handle.
- Unfold the mattress.
- Put the foot supports in the applicable position.



OneStep® Foot Supports

The OneStep® Foot Supports can be simultaneously positioned up or down, through use of the motor powered foot section yoke. This foot section yoke controls the overall height up and down. Each support can be independently positioned by using the mechanical release latches at the end of the foot supports.

To Adjust the Foot Supports:

- To position the patient's legs, squeeze the release lever and rotate the foot support. The foot support rotates upward and outward from 0° to 85°.
- To return to the storage position, squeeze the release latch again, and return the supports to the desired position.

The maximum safe working load is 150 lb (68 kg).



OneStep® Foot Supports

Features

Headboard

The headboard includes built-in handles which aid in steering control and increase mobility. The headboard assembly is removable.

To Remove: Grasp the hand holds firmly, and lift up.

To Install: Align the headboard sockets with the posts on the bed frame, and lower the headboard until it rest on the bed frame.



IV Pole

The bed comes equipped with one IV pole, stored at the head end of the bed on the headboard. The IV pole sockets are located at each corner of the bed at the head end.

Deploy: Remove the IV pole from the holders. Insert the pole into the desired socket, and turn clockwise until it drops fully into the socket and locks into place.

The maximum safe working load is 25 lb (11 kg).



IV Pole

Labor Grips

Ergonomically correct labor grips comfortably accommodate patients of all sizes. The handles are covered with a non-porous, fluid resistant foam that is comfortable for mothers to squeeze.

To Activate: To raise the labor grip, grasp the grip, and rotate it from under the bed until it clicks in place.
To lower, pull the release latch, and lower the grip under the bed.



Built-In Labor Grips

Lockout Controls

The *Lockout* controls deactivate the hilow, head, and foot functions on the bed. When a lockout is activated, both the patient and caregiver controls for motor functions are locked out.

Location: The *Lockout* control is located on the frame, or lower shroud, at the head end of the bed.
The *Lockout* control LED indicator is located on the caregivers side of both siderails.

To Activate: Press the *Lockout* control switch to deactivate the motors. The lockout LED indicator on the siderail will light.

Activating the lockout function does **not** affect the operation of the emergency CPR Release.



LED Indicator

Night Light

A photo cell control automatically turns the light on when the room darkens and turns it off when the room gets brighter. The night light does not function when the bed is powered by the battery.

Location: The night light is located on the bottom center of the bed frame.

Siderails

The bed has two siderails, one located on each side. The siderails contain caregiver and patient siderail controls, and can be adjusted between the upright and lowered positions.



WARNING:

After changing the position of the siderails, tug on them slightly to ensure that they are securely locked in place. Failure to do so could result in patient injury.



WARNING:

Make sure the patient is clear of the siderails when you raise them. Failure to do so could cause the patient to be pinched.

To Adjust:

- To raise or lower the siderails, pull the *Siderail Release Latch* on the siderail, and swing the siderail into the desired position. When raising the siderails, you will hear a click when the siderail is securely in place.
- To store a siderail, lower it completely and push it in under the bed surface.



Head End Siderail

Trend-Like Function

The bed can achieve up to 8° of Trend-Like positioning. You can activate the Trend-Like controls at any bed height. When the bed is in its lowest position and the Trend-Like function is activated, the bed will rise to the appropriate height in order to go into the full Trend-Like (8°) position.

To Activate:

- To position the sleep surface in a Trend-Like position, push down on the handle and guide the bed to the desired degree, up to 8°.
- To level the sleep surface, pull up on the handle and guide the bed to a level position.



Trend-Like Function

Optional Features

Optional Features

Air Support System

The Affinity® Three Birthing Bed and Affinity® Four Birthing Bed feature air surface controls (located on both the outside and inside of the siderail) for both seat and lumbar support. These controls provide improved patient comfort during labor, recovery, and postpartum while minimizing the cost, maintenance, and labor concerns associated with the use of overlays.

Seat Support:

Enables the patient to tailor her own comfort level. Provides pelvic support to improve practitioner access and visibility during deliveries and repairs. The firmness or softness of the surface is controlled by increasing or decreasing the amount of air contained in the air bladder. Patient and staff controls are embedded in both siderails.

Lumbar Support:

Adds varying degrees of back support in the lumbar region to improve patient comfort both before and after delivery. Fully inflated, the lumbar support allows positioning of the patient's perineum out the V-Cut for examination and delivery. The maximum lumbar inflation from a flat position to a full position is 4" (10 cm).

Siderail Controls

Built-In SideCom® Communication System Controls (Optional)

Every Affinity® Three Birthing Bed and Affinity® Four Birthing Bed with siderail controls are pre-wired to accommodate the SideCom® Communication System now or in the future. The SideCom® Communication System enables integration of the backlit nurse call, entertainment (radio and TV), and lighting in the siderails. The optional Universal TV is also available.

Built-In Siderail Controls

Patient and staff controls are embedded in the siderails on both sides of the bed.

The patient controls are always in full view of the patient, and the international graphic symbols provide easy orientation. Patient head and foot section controls are embedded in the inside panel of the siderails (on both sides of the bed) for the patient's convenience. Powered operation allows the patient to respond to her body signals and reduces her dependence on staff assistance for positioning, support, and comfort. These controls include *Head Up/Head Down* and *Foot Up/Foot Down*.

Staff controls are embedded in the outside panel of both siderails. In addition to head and foot section controls, the outside panel contains controls for the hillow operation.

Wood Headboards

The wood headboards include built-in handles which aid in steering control and increase mobility. The headboard assembly is removable. Beds with the push handle option will not have handles on the headboard.

To Remove: Grasp the hand holds firmly, and lift up.

To Install: Align the headboard sockets with the posts on the bed frame, and lower the headboard until it rest on the bed frame.



Casters

Eight inch casters are available for both the Affinity® Three Birthing Bed and Affinity® Four Birthing Bed (not available for Stow and Go™ foot section).

Calf Support

The standard calf support is included with both the Affinity® Three Birthing Bed and the Affinity® Four Birthing Bed. Additional calf supports are available as optional features and are identified in the Accessories section of this document (see “Accessories” on page 25).

Mattresses

Surfaces with nano Ag+® Technology with SmartSilver® Ions

The use of nano Ag+® Technology with SmartSilver® Ions supplies surface protection as an antimicrobial that kills > 99.8% of stain and odor causing bacteria on the surface. This product is not intended to protect users or others against bacteria, viruses, germs, or other disease organisms. Always disinfect Hill-Rom surfaces thoroughly after each use according to facility protocol.

Handle surfaces with nano Ag+® Technology as you would other surfaces; there are no known concerns for handling, discarding, toxicity, or allergic reactions.

Optional Features

Non-Air Mattress

The Comfortline® pressure redistribution foam mattress is available with nano Ag+® technology.

Tempur-Pedic® Mattress

The Tempur-Pedic® mattress is ideal for pressure redistribution and superior comfort. It is available with nano Ag+® technology.

Accessories

Table 1. Accessories

Product Number	Description	Weight
P9625	Anesthesia screen	3.2 lb (1.45 kg)
P9620	Arm board	7.1 lb (3.22 kg)
P3704	Calf supports, EasyGlide® - Affinity® Three Bed (no longer available)	10.0 lb (4.54 kg)
P35745A	Calf supports, telescoping (detachable)	7.3 lb (3.31 kg)
P3705A	Calf support and arm - Affinity® Four Bed	6.4 lb (2.90 kg)
P3715	Calf and foot support upgrade kit - Affinity® Three Bed	47.0 lb (21.3 kg)
P3612TPA	Comfort pad, Tempur-Pedic®	9.8 lb (4.45 kg)
B7831	Disposable standard flat drape	0.4 lb (.17 kg)
B7834	Disposable funnel drape	0.4 lb (.17 kg)
P3623	Foley hook kit	0.8 lb (.37 kg)
P451A	Foot rest bar - lift off only	5.3 lb (2.40 kg)
P7625C	Full leg supports, attached	4.2 lb (1.90 kg)
P7634C	Full leg supports, telescoping	8.0 lb (3.63 kg)
P3617	Headboard - wood (contemporary)	18.3 lb (8.30 kg)
P3629	Headboard (blow molded)	8.8 lb (3.99 kg)
P93-3617	Headboard - wood (FreedomHill™ collection)	19.7 lb (8.94 kg)
P92-3617	Headboard - wood (LibertyHill™ collection)	23.8 lb (10.80 kg)
P278B	Instrument tray (lift off and slide off versions only) (no longer available)	5.0 lb (2.27 kg)
P159	ISS offset bar	1.0 lb (.45 kg)
P158A	ISS transfer pole	2.6 lb (1.2 kg)
P3613B	Labor bar	8.7 lb (3.95 kg)
P1505	Mirror, birthing	21 lb (9.53 kg)
P27605	O ₂ tank holder	3.8 lb (1.74 kg)
P5362	Pendant kit with holder	0.9 lb (0.41 kg)
P222101	Permanent IV Pole (A through C model beds)	4.4 lb (1.8 kg)
P7925D120	Procedural light	N/A
P11824	Procedural stool (no longer available)	N/A
P53120120	Rail - Affinity® Four Bed, Stow and Go™ foot section	N/A
P17073001	Hanger - Affinity® Four Bed, Stow and Go™ foot section	N/A
SA1528	Sheets, V-cut, complete	1.0 lb (.45 kg)
SA4585	Sheets, V-cut, two-piece	1.0 lb (.45 kg)
SA1529	Sheets, straight edge, complete	1.0 lb (.45 kg)
SA4586	Sheets, straight edge, two-piece	1.0 lb (.45 kg)
P3627C	Slipcover, head section, straight edge	1.7 lb (0.77 kg)

Accessories

Product Number	Description	Weight
P3628C	Slipcover, head section, V-cut	1.7 lb (0.77 kg)
P3630B	Slipcover, foot section, V-cut	1.1 lb (0.50 kg)
P3631B	Slipcover, foot section, straight edge	1.1 lb (0.50 kg)
P3730A	Slipcover, foot section upgrade kit, U-cut - for Affinity® Four Bed	45.0 lb (20.4 kg)
P3731A	Slipcover, foot section upgrade kit, V-cut - for Affinity® Four Bed	45.0 lb (20.4 kg)
P2219	Permanent IV pole (no longer available)	4.0 lb (1.8 kg)
P3574	Calf support, detach	3.2 lb (1.5 kg)
P3616	Calf supports, attached	9.0 lb (4.1 kg)
P3618	Pendant	0.8 lb (0.36 kg)
P3619A	Mattress, wedge (no longer available)	3.0 lb (1.36 kg)
P8620	Stool, surgical	N/A
SA4505	Sheets, V-cut, fitted	1.0 lb (.45 kg)
SA1599	Sheets, U-cut, full bed	1.0 lb (.45 kg)
P923617B	Headboard	20.0 lb (9.07 kg)
P933617	Headboard	20.0 lb (9.07 kg)
P1983A	Push handles	1.8 lb (0.82 kg)
P3733A	Line manager	0.8 lb (0.36 kg)
P3732A	Permanent IV Pole (D model and newer beds)	3.5 lb (1.59 kg)
6342201	Power cord, USA	0.8 lb (0.36 kg)
6342202	Power cord, Australia, New Zealand	0.8 lb (0.36 kg)
6342203	Power cord, Continental Europe	0.8 lb (0.36 kg)
6342204	Power cord, U.K., Ireland	0.8 lb (0.36 kg)
6342205	Power cord, Switzerland	0.8 lb (0.36 kg)
6342206	Power cord, Denmark	0.8 lb (0.36 kg)
6342207	Power cord, China	0.8 lb (0.36 kg)
6342208	Power cord, Chile, Italy	0.8 lb (0.36 kg)
6342209	Power cord, Israel	0.8 lb (0.36 kg)
6342210	Power cord, Argentina	0.8 lb (0.36 kg)
6342212	Power cord, Saudi Arabia, Guam, Mexico	0.8 lb (0.36 kg)
6342213	Power cord, Brazil	0.8 lb (0.36 kg)

Anesthesia Screen—P9625

The base of the frame slides between the mattress and the frame. The screen can be positioned on either side of the bed.

The maximum safe working load is 5 lb (2.3 kg).



WARNING:

Make sure the patient does not grab the anesthesia screen. Injury could occur.

Arm Board—P9620

The arm board is held in place between the frame and mattress. The padding is removable for cleaning.

The maximum safe working load is 30 lb (14 kg).



Arm Board

Calf Supports—P3704, P3705A, and P35745A

The P3704 and P3705A calf supports are permanently attached to the foot support for easy access. The removable P35745A calf support (not shown) is fully padded with telescoping height adjustment; it is installed the same as the P7625C and P7634C full leg supports (see page 29).

Affinity® Three Birthing Bed (P3704 shown)



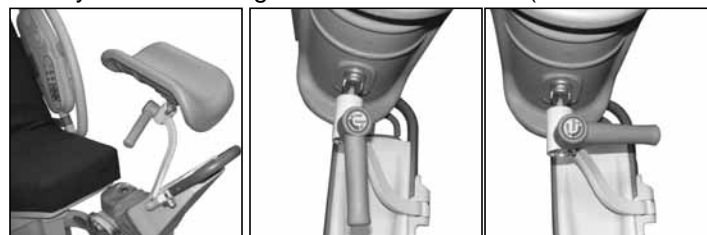
WARNING:

Use care when you put the calf supports into use or to store them. Pinch injury could occur.

To Adjust for Use:

- Fold in the hinged mattress.
- Rotate the foot supports all the way upward, and outward.
- Pull the release latch, and rotate the calf support to the upright position. The calf supports lock when in the upright position.
- Adjust the calf support using the release handle.
 - **Affinity® Three Birthing Bed**—to unlock the calf support, turn the release handle clockwise. To lock it, turn the release handle counterclockwise.
 - **Affinity® Four Birthing Bed**—to unlock the calf support, pull the release handle a 1/4 turn toward the foot end. To lock it, push the release handle a 1/4 turn toward the head end.

Affinity® Four Birthing Bed Release Handle (P3705A shown)



Unlocked

Locked

Accessories

NOTE:

Check for pressure points, and make appropriate adjustments. For **TALL PATIENTS**, angle the support downward. For **SHORT PATIENTS**, angle the support upward.

The maximum safe working load is 60 lb (27 kg).

Calf and Foot Support Upgrade Kit—P3715

This upgrade kit enables the Affinity® Three supports to be converted to the Affinity® Four style supports.

Tempur-Pedic® Comfort Pad—P3612TPA

The comfort pad is placed on top of the mattress and fitted securely around the mattress corners. It rolls up into a compact bundle for storage. This pad provides 1" (25.4 mm) of Tempur-Pedic® high density viscoelastic foam and fits 4" and 5" mattresses on all Affinity® models.

Disposable Standard and Funnel Drapes—P7831 and P7834

The full size, absorbent, disposable labor and delivery drape covers the entire seat, foot and lower backrest. The funnel drape tucks into the fluid basin when the end of the bed is removed. The drape should be placed over the bottom sheet before the patient gets into bed, with the soft, absorbent surface next to the patient, waterproof side down.

Foley Hook Kit—P3623

This kit can be mounted to either side of the bed frame near the labor grip.

The maximum safe working load is 10 lb (4.5 kg).



Foley Hook Kit

Foot Rest Bar—P451A

This bar provides a convenient foot rest for the physician (or obstetrician) and is for lift off versions only.

The maximum safe working load is 150 lb (68 kg).

NOTE:

The Foot Rest Bar is not available on the Affinity® Four Birthing Bed that has the Stow and Go™ Foot Section option.



Foot Rest Bar

Full Leg Supports—P7625C and P7634C

Both leg supports are padded with ball joint and pull handles. The P7634C is telescoping.

To Adjust for Use:

- Electrically lower the foot section to the lowest position, with the patient's legs on the foot section, before placing her legs into the supports.
- Both full-leg supports are interchangeable right and left.
- For leg support installation, place the rod into the steel sockets located at the point where the foot section attaches to the yoke.
- Drop them into the sockets, and rotate until you hear the support lock.
- Rotate the supports so that the black knob faces inboard, toward the patient, and leave the knob loose.
- For large patients, rotate the black knob outboard, away from the patient.
- Place the patient's legs into the supports.
- Adjust the position by rotating her knees out.
- Tighten the black knob.
- Raise the foot section electrically to fill in the popliteal space by pushing the *Foot Up* control. The patient's legs should be completely supported.
- Remove the foot section.
- Rotate the foot supports up and away from the center of the bed.



Full Leg Supports

NOTE:

Check for pressure points, and make appropriate adjustments.

For **TALL PATIENTS**, angle the support downward. For **SHORT PATIENTS**, angle the support upward.

The maximum safe working load is 60 lb (27 kg).

Headboards—P3617, P3629, P92-3617 and P93-3617

The P3629 blow-molded headboard is available in five woodgrain laminate options and two color laminate options. The P3617 contemporary wood headboard and P93-3617 FreedomHill™ wood headboards are available in light and medium oak stain options. The P92-3617 LibertyHill™ wood headboard is available in wild cherry and dark cherry stain options. All of the wood headboards are available in all wood finishes.

Instrument Tray—P278B (no longer available)

The instrument tray is designed to optimize the process of performing obstetrical postpartum procedures. This instrument tray is compatible with lift-off and slide-off foot sections.

Location: The instrument tray is located at the foot section of the bed, in the foot section yoke.

The maximum safe working load is 25 lb (11 kg).



Instrument Tray

Accessories

NOTE:

The Instrument Tray is not available on the Affinity® Four Birthing Bed that has the Stow and Go™ Foot Section option.

Infusion Support System (ISS)—P158A and P159

The P158A transfer pole and the P159 offset bar provide placement of infusion support devices and may be located at either side of the head section.

The maximum safe working load is 40 lb (18 kg).

Labor Bar—P3613B

For extra support, the labor bar fits into the leg support sockets between the seat and foot cushions.

To Adjust: To raise or lower the bar, use the *Foot* controls. The bar can be used in either direction for different positions and purposes.

The maximum safe working load is 100 lb (45 kg).



Labor Bar

Mirror—P1505

This birthing mirror is adjustable to enable the patient to view the birth from many delivery positions. It is available in all wood finishes.

O₂ Tank Holder—P27605

The oxygen tank holder attaches to the frame in a vertical position. It holds one standard (E size) oxygen tank.

The maximum safe working load is 30 lb (14 kg).

Pendant Control Kit with Holder—P5362

This kit contains a pendant control and holder to control the bed *high/low*, head *up/down* and foot *up/down* functions. The holder clamps to the bed side rail.

Make sure you stow the pendant and pendant cable when it is not in use or when you transport the bed.

To Activate: Push the appropriate button(s).



Pendant Control

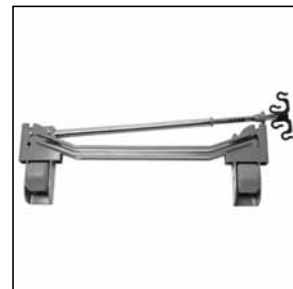
Permanent IV Pole—P222101

The Permanent IV Pole mounts to the head section frame. The pole slides to either side of the bed and enables additional IV bags and pumps to be mounted. The P222101 can not be used on D model beds.

The maximum safe working load is 25 lb (11 kg).

To Deploy:

- Lift the IV pole from its stored position behind the headboard, and position it straight up.
- Make sure that the pole drops and locks into position.
- Raise the upper section of the pole to the desired height. The IV pole is ready for use.



Permanent IV Pole

To Store:

- Grasp and hold the upper section of the IV pole. Push the upper collar down, and lower the upper pole section into the lower pole section.
- Lift the lower section of the IV pole up, and lower the pole down to the stored position behind the headboard. The poles should rest in the storage slots provided on the bed frame.



CAUTION:

Make sure any IV pole mounted infusion pumps are not in the direct path of the moving head section. Interference with head section articulation could result.

Procedural Light—P7925D120

This light is mounted on a four leg base with two locking casters for stability. It is designed to provide no-drift, shadow free, color correct light.

Procedural Stool—P11824 (no longer available)

This stool adjusts for convenience and comfort using a foot controlled gas spring.

The maximum safe working load is 300 lb (136 kg).

Rail and Hanger—P53120120 and P17073001

The equipment rail (P53120120) and hanger with bracket (P17073001) are for the Affinity® Four Birthing Bed, Stow and Go™ foot section.

Sheets—SA1528, SA4585, SA1529, and SA4586

A sheet set includes pillow case, top, and custom-fitted, bottom sheets. Additionally, the two-piece bottom set is available separately.

Before the Affinity® Bed is used by a patient, sheets must be placed over the mattress.

Accessories

Slipcovers (Head and Foot)—P3628C, P3627C, P3630B and P3631B

Head

The head section slipcover is simply placed over the head section mattress for protection from normal wear and tear and from fluids.

Foot Section Slipcovers

The foot section slipcover is simply placed over the foot section mattress for protection from normal wear and tear and from fluids.



Head Section Slip Cover

Number	Description
P3627C	Slipcover, head section, straight edge
P3628C	Slipcover, head section, V-cut,
P3630B	Slipcover, foot section, straight edge
P3631B	Slipcover, foot section, V-cut

Slipcover Upgrade Kits—P3730A and P3731A

These upgrade kits enables upgrade from Affinity® Four Birthing Bed lift off to “Stow and Go™” foot section. The P3730 is for the U-cut slipcover and the P3731 is for the V-cut slipcover.

Push Handles—P1983A01

The push handles are located on the head end of the bed and are used to move the bed.

Remove from the Stowed Position

Pull the push handles upward until they lock in position.



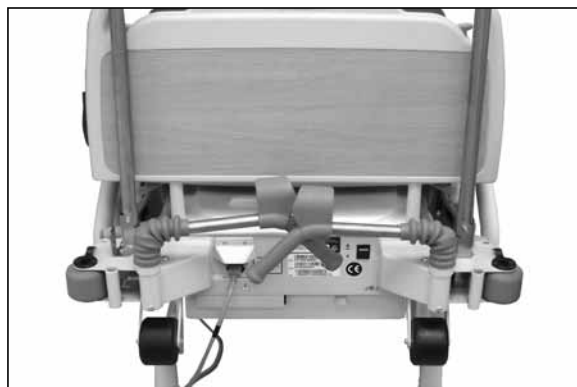
Stow



WARNING:

Make sure the patient or caregiver hands are not in the path of travel while you lower the transport handles. Injury could occur.

1. Lift up on the push handles to unlock them.
2. Move the push handles in toward the center of bed to the stowed position.



Line Manager—P3733A



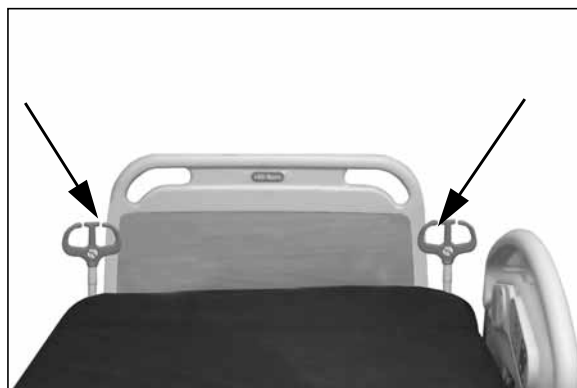
WARNING:

Do not use the Line Manager for ventilator circuits. To do so could cause patient injury.



WARNING:

Failure to keep aseptic lines separate from non-aseptic lines may cause cross contamination.



WARNING:

Do not hang cords on the Line Manager. To do so could cause injury or equipment damage.



WARNING:

When you use the Line Manager, monitor the lines to make sure they are not pinched or kinked and there is sufficient slack for bed articulations and patient movement. Failure to do so could cause injury or equipment damage.



WARNING:

Failure to remove lines from the Line Manager before you transfer the patient could cause patient injury or equipment damage.



WARNING:

Do not use the line manager to move the bed. Injury or damage could occur.



WARNING:

Do not use tape to hold lines inside the line manager. Injury could occur.

A Line Manager is on each side of the head end of the bed. The Line Manager helps to keep lines (such as IV infusion lines, suction lines, oxygen lines, etc.) together and away from the articulating frame. The flexibility of the Line Manager lets you bend it in any direction.

Accessories

The line manager can hold one set of the following:

- 4 monitor lines of 1/8" diameter
- 2 suction lines of 1/2" diameter
- 2 oxygen lines of 3/8" diameter
- 8 IV infusion lines of 1/4" diameter
- 1 feeding tube of 3/8" diameter

Permanent IV Pole—P3732A

The Permanent IV Pole option consists of one IV pole that supports up to two IV pumps plus bags. The IV pole is attached to the bed frame near the corner of the headboard.



CAUTION:

Do not exceed the 40 lb (18 kg) IV pole or 2.5 lb (1.1 kg) hook weight capacity. Equipment damage could occur.

The IV pole can support up to 40 lb (18 kg). The hooks can support 2.5 lb (1.1 kg).



CAUTION:

Make sure any IV pole mounted infusion pumps are not in the direct path of the moving head section. Interference with head section articulation could result.



Make sure you mount infusion pumps on the **lower** part of the IV pole.

To Deploy

1. Lift the IV pole from its stored position behind the headboard and put it straight up.
2. Make sure that the pole drops and locks into position.
3. Raise the upper section of the pole to the desired height. The IV pole is ready for use.

To Store



WARNING:

Make sure the patient hands are not in the path of travel while you lower the IV pole. Injury could occur.

1. Grasp and hold the upper section of the IV pole. Push the upper collar down, and lower the upper pole section into the lower pole section.
2. Lift the lower section of the IV pole up, and lower the pole down to the stored position behind the headboard. The pole should rest in the storage slot provided on the bed frame.

**WARNING:**

When lowering the upper section of an IV pole, always grasp and hold the upper section of the pole before pulling the release knob.

Make sure you hold the top section of the IV pole when you extend or retract it.

**CAUTION:**

Only use the headboard handles or push handles to move the bed. Equipment damage could occur.

Do not use the IV poles to move the bed; only use the headboard or push handles.

Patient Positioning—Labor and Birth

Patient Positioning—Labor and Birth

NOTE:

The Labor and Delivery Drape should be placed over the bottom sheet before the patient gets into the bed.

To allow the patient to participate, show her how to operate the controls.

Upright Position/Voiding Position

- Raise the head of the bed to a comfortable position by pressing the *Head Up* control.
- Lower the foot section by pressing the *Foot Down* control.
- Place the patient in an upright position.
- Place the bed pan backward into the V-Cut on the foot section.
- A specimen container may also be used. Slide it between the mattress and bed frame.
- Position the patient out and over the V-Cut having her hold the labor grips for support.
- If the patient's legs are unstable, position her feet with the soles together to prevent sliding.



Lateral Position (Sims)

- With the bed in the lowest position and the head of the bed adjusted for the patient's comfort, position the attached calf support with the foot end pointed toward the head of the bed.
- With the patient lying on her left side, place her right leg in the support and lower the foot section for comfort.
- Adjust the support, and tighten the joint.



Kneeling Position

- Raise the head section of the bed to the full upright position.
- Have the patient kneel on the seat section and use the head section of the bed for support.



Legs Elevated With Foot Mattress

This position is useful for various clinical reasons during antepartum care, postpartum care, and anesthesia administration when a patient's legs require elevation. It may also be used for patient comfort.

To Adjust:

- Raise the foot section to its highest position.
- Fold in the hinged part of the foot section mattress.
- Place the patient's legs on the elevated mattress section.



Squatting With The Labor Bar

- With the bed in the lowest position, raise the head by pressing the *Head Up* control, and lower the foot section by pressing the *Foot Down* control.
- Insert the labor bar into the leg support sockets, so it angles away from the head of the bed.
- The patient may squat on the seat section, holding the Labor Bar, or sit with her feet on the foot section leaning forward onto the bar.



Pushing With The Labor Bar

- Raise the head of the bed to a comfortable position by pressing the *Head Up* control.
- Insert the labor bar into the support sockets, so it angles away from the head of the bed.
- Lower the foot section, if needed, by pressing the *Foot Down* control.
- Place the patient's feet on either side of the Labor Bar.
- The patient may grip the labor grips or pull back on her knees.



Pushing With The Labor Bar (With Foot Supports)

- Raise the head of the bed to a comfortable position by pressing the *Head Up* control.
- Remove the foot section.
- Place the patient's feet on the foot supports and adjust for comfort.
- Insert the labor bar into the support sockets, so it angles away from the head of the bed.
- The patient may grasp the labor bar where it's comfortable for her.



Patient Positioning—Labor and Birth

Pushing with Calf Supports

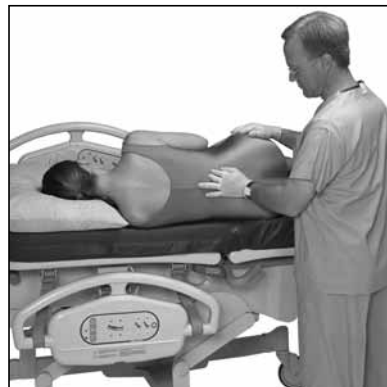
To Adjust:

- Adjust the head of the bed to approximately 30°, by pressing the *Head Up* control.
- Place the patient's legs on the calf supports.
- The patient may pull back on her knees without the need for the staff to assist her.
- Lower the foot section if desired.



Epidural/Spinal (Lateral Approach)

- Lower and tuck away one siderail.
- Position the bed to a comfortable height, and lower the head of the bed.
- Place the patient in a lateral recumbent position at the mattress edge.



Epidural (Sitting Approach)

- Raise or lower the bed to a comfortable height for the staff, and flatten the bed.
- Have the patient dangle her legs over the opposite side of the bed.



Straight Line Trend-Like Positioning

- Pull the CPR Release to lower the head of the bed to a full flat position.
- Push down on the Trend-Like handles (located on either side of the bed) and guide the bed to the desired degree, up to 8°.
- To level the sleep surface, pull up on the handle and guide the bed to a flat position.



General Anesthesia

- In an emergency, position the bed to a comfortable height.
- Remove the headboard.
- Position the patient for intubation.

Throne Position (Chair)

- Raise the head of the bed to place the patient in a sitting position.
- Pull up the labor grips.
- Position the patient's feet in the foot supports.
- Remove the foot section.
- Use the *Foot* control to raise or lower the Foot Supports.
- Tuck the end of the drape into the drainage pan and raise the bed to a comfortable height by pressing the *Bed Up* control.



WARNING:

To avoid injury, make sure the patient's hands are clear of the labor grips when they are raised.

Birthing Bed Mode

- Position the patient's feet in the foot supports. Raise the supports to a comfortable position.
- Pull up the labor grips.
- Remove the foot section, and tuck the drape into the drainage pan.
- Tilt up the foot support.
- Raise the bed to a comfortable height by pressing the *Bed Up* control, and position the patient's perineum out and over the edge of the seat section.

Delivery Table Mode

- Slide the patient down so that her buttocks are at the division in the mattress.
- Lower the foot section to its lowest position.

With Calf Supports

- Position the attached calf supports, and place the patient's legs in the supports.
- Adjust the angle of the supports, and tighten the ball joints.

With Full Leg Supports

- Adjust the angle of the leg supports, and tighten the black-winged knob.
- Push the **Foot Up** control to raise the leg supports, so that they securely support the patient's perineum **over** the cut-out space.
- Remove the foot section, and raise the bed to a comfortable working height.

NOTE:

Check pressure points.

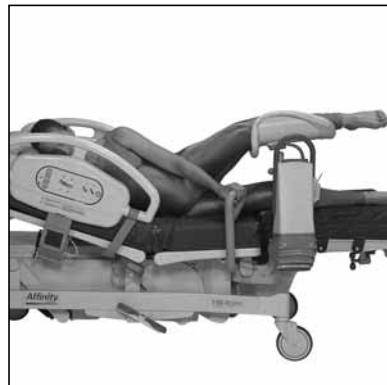
- Press the *Foot Up* control to raise the supports so that they securely support the patient's perineum **over** the edge of the seat section.
- Remove the foot section, and raise the bed to a comfortable working height. The drainage pan can also be removed for extra exposure.



Patient Positioning—Labor and Birth

High Modified Trend-Like Position (Birth And Repair)

- Raise the bed to the desired height using the *HiLow* control.
- Raise the head section to the desired position by using the *Head Up* control.
- Position the patient's legs in calf supports.
- Push down on the Trend-Like handle to place the patient in modified Trend-Like position and to raise the perineum.



Safety Tips

For over 70 years Hill-Rom has set the standard for quality in patient beds. During this time, with input from many of our customers, we have acquired these useful tips.

To help prevent the risk of hospital bed fires, make sure facility personnel follow the safety tips in the *FDA Public Health Notification: Safety Tips for Preventing Hospital Bed Fires*.

Bed Positions



WARNING:

Make sure the bed is in the low position when the patient is unattended. This can reduce the possibility of patient falls and the severity of any resultant injuries.



WARNING:

Make sure you position tubes, lines, and linens away from moving parts. Failure to do so could cause patient injury.



CAUTION:

Make sure the bed does not touch the wall at the head end. When the bed is raised, it moves slightly towards the head end. If the bed is too close to the wall, damage could occur.

Make sure the bed is in a position so that you can disconnect the power cord from the AC mains supply at either the wall outlet or the bed outlet.

Brakes



WARNING:

Always set the brakes when the bed is occupied, except during patient transport. To help ensure the bed will not move, push and pull on the bed to check it after the brakes are engaged.

Brakes should always be set when the bed is occupied and especially when moving a patient from one surface to another. Patients often use the bed for support when getting out of bed and could be injured if the bed unexpectedly moves. After setting the brakes, push and pull the bed to insure stability.

Fluids



WARNING:

Significant fluid spills onto the bed electronics can result in a hazard. If such a spill occurs, unplug the bed and remove it from service. Failure to do so could result in personal injury or equipment damage.

When massive fluid spills occur on the bed, immediately:

- Unplug the bed from its power source.
- Remove the patient from the bed.
- Clean the fluid spill from the bed system.
- Have maintenance inspect the system completely.

Do not put the bed back into service until it is completely dry, tested, and determined to be safe to operate.

Safety Tips

Siderails/Restraints/Patient Monitoring

The siderails should always be in a full upright position and latched when a patient is unattended. When raising the siderails, an audible click indicates that the siderails are completely raised and locked in place.

Siderails are intended to be a reminder, not a patient restraining device. Hill-Rom recommends the appropriate medical personnel determine the level of restraint necessary to ensure a patient will remain safely in bed. Consult the restraint manufacturer's instructions for use to verify the correct application of each restraining device.



WARNING:

Siderails are not intended to be used as restraint devices. Medical personnel should determine the appropriate use of siderails and ensure patient safety. Failure to do so could result in patient injury.

3. Develop guidelines for all patients that indicate:
 - Which patients may need to be restrained and the appropriate restraint to utilize.
 - The proper method to monitor a patient, whether restrained or not, including time interval, visual check of restraint, etc.
4. Develop training programs for all caregivers concerning the proper use and application of restraints.
5. Maintain the bed at its lowest position whenever a caregiver is not in the room.
6. Clarify the need for restraint devices to families or guardians.

Electricity



WARNING:

Unplug the bed from its power source, and activate the lockout switches before cleaning or service. Failure to do so could result in personal injury or equipment damage.

Verify that the lockout switch is activated before cleaning or servicing the bed. The battery backup provides power to the bed functions even when the bed is unplugged from its power source.



WARNING:

Establish policies and procedures to train and educate your staff on the risks associated with electrical equipment. Failure to do so could result in personal injury or equipment damage.



WARNING:

Significant fluid spills onto the bed electronics can result in a hazard. If such a spill occurs, unplug the bed, and remove it from service. Thoroughly clean the bed and allow it to dry, then have the bed checked by service personnel.



WARNING:

To reduce the risk of electric shock, the bed should only be connected to supply mains with a protective earth.

**CAUTION:**

Before transporting the bed, ensure that the power cord is stored on the power cord wrap holder provided on the headboard. Failure to do so could result in equipment damage.

**WARNING:**

Improper use or handling of the power cord may result in damage to the power cord. If damage has occurred to the power cord or any of its components, immediately remove the bed from service, and contact the appropriate maintenance personnel. Failure to do so could result in personal injury or equipment damage.

Use only Hill-Rom power cords as a replacement. Other power cords have not been investigated for compliance with electrical safety standards for this product.

**WARNING:**

If the integrity of the external protective earth conductor is in doubt, operate the bed from its internal electrical power source. Failure to do so could result in personal injury.

Policies and procedures must be established to train and educate your staff on the risks associated with electric equipment. It is never prudent or necessary for personnel to place any part of their body under or between moving parts of the bed. Whenever a bed is being cleaned or serviced, it should be unplugged from its power source, and the lockout switch should be activated to keep the bed from accidentally operating due to the battery backup. If service personnel need to get under the bed, the hilow portion must be blocked up as an added precaution. Refer to the *Affinity® Three Birthing Bed and Affinity® Four Birthing Bed Service Manual* (MAN272).

Parts and Accessories

**WARNING:**

Do not modify the bed without authorization from Hill-Rom. Injury or equipment damage could occur.

Use only Hill-Rom specified mattresses, parts and accessories. Do not modify the bed system without authorization from Hill-Rom.

Safety Tips

Operating Precautions



WARNING:

Do not operate the bed in the presence of flammable gas or vapors. Failure to do so could result in personal injury or equipment damage.



WARNING:

Young children should be supervised around the bed. Failure to do so could cause injury.



WARNING:

Use oxygen administering equipment of the nasal, mask, or ventilator type only. Do not use the bed with oxygen tents. Failure to do so could result in personal injury or equipment damage.



WARNING:

Deactivate the bed functions using the lockout control. Movement of a patient or inadvertent activation of the bed functions by anyone else could result in personal injury.

Lockout Controls

Activate the lockout control at the head end of the bed to keep a patient or visitor from operating the motor function on the siderail controls.

Maintenance



WARNING:

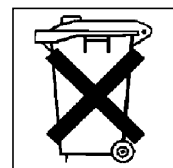
Only facility-authorized personnel should perform preventive maintenance on the Affinity® Three Birthing Bed and Affinity® Four Birthing Bed. Preventive maintenance performed by unauthorized personnel could result in personal injury or equipment damage.

The Affinity® Three Birthing Bed and Affinity® Four Birthing Bed require an effective maintenance program. We recommend that you perform semi-annual preventive maintenance (PM) and testing for Joint Commission on Accreditation of Healthcare Organizations (JCAHO). PM and testing not only meet JCAHO requirements but will help ensure a long, operative life for the Affinity® Three and Affinity® Four Birthing Bed. PM will minimize downtime due to excessive wear. For the preventive maintenance schedule, refer to the *Affinity® Three Birthing Bed and Affinity® Four Birthing Bed Service Manual* (MAN272).

Battery

Power comes from a lead acid battery. Dispose of according to local regulations.

The battery should be replaced every 2 years.



Pb

Troubleshooting



WARNING:

Only facility-authorized personnel should troubleshoot the Affinity® Three and Affinity® Four Birthing Bed. Troubleshooting by unauthorized personnel could result in personal injury or equipment damage.

Always check the battery charge status on the siderail. The bed may not be functioning due to the battery being drained, and the bed needing to be plugged into its appropriate power source.

Transport

**WARNING:**

The bed is intended to be used to transport patients with the foot end of the bed forward. Prior to transport, properly store the power cord to help prevent tripping.

**WARNING:**

Use only the integrated headboard transport handles or integrated push handles to move the bed during transport. Failure to do so could result in personal injury or equipment damage.

**WARNING:**

Do not use the line manager or IV poles to move the bed. Injury or damage could occur.

**WARNING:**

Make sure that the patient, equipment, foley bags, and all lines (including power cords) are securely placed within the perimeter of the bed for intra-hospital transport. Failure to do so could result in personal injury or equipment damage.

**WARNING:**

Fully extended IV poles and any attached equipment could impact doorways or ceiling fixtures. Lower the poles prior to patient transport and make sure all attached equipment does not impact doorways. Failure to do so could result in personal injury or equipment damage.

**WARNING:**

Be sure to connect the nurse call SideCom® Communication System cables after transport is complete. Failure to do so could result in personal injury.

**WARNING:**

Do not leave the bed exposed to extreme environmental conditions for extended periods of time. Possible equipment damage could occur.

**WARNING:**

Make sure the bed is not transported over a side inclination of more than 5°. Failure to do so could cause personal injury or equipment damage.

**WARNING:**

Remove the arm board, and store the calf support and foot supports before transporting. Failure to do so could cause personal injury or equipment damage. Affinity® Four Birthing Bed only.

**CAUTION:**

Use caution when you move the bed through doorways. Equipment damage could occur.

The bed is intended to be used to transport patients with the foot end of the system forward. Before transport, store the power cords to prevent tripping. Take care to prevent damage to AC power cords. An electrical shock hazard

Safety Tips

exists. Use only the headboard, headboard push handles (wood headboards), or the integrated push handles (D model beds) to move the bed.

Transport the bed with the head-end lift arms parallel to the ground or lower.

Make sure the patient, equipment, and all lines are placed within the perimeter of the bed for intra-hospital transport.

Fully extended IV poles could damage doorways or ceiling fixtures. Lower poles before patient transport.

Make sure that the Nurse Call system cables are correctly connected after transport.



WARNING:

During transport, use caution so the bed does not tip or overbalance. Failure to do so may cause injury or equipment damage.

Generally, as the load increases, the risk of instability goes up.

Lower the foot section and head section to increase stability.

Lower the bed deck height to increase stability.

Use and position of accessories may affect stability. Do not overextend IV poles or similar accessories and do not overload accessories. If multiple accessories are in use, distribute them evenly from side to side or head to foot.

For inclines or thresholds, only approach them as you move forward or backwards.

To help prevent overbalance or collision with hidden objects or people, do not make sharp corners and do not turn the bed at high speeds.

Use two or more caregivers to transport the bed if it is occupied.

Clean and Disinfect

We recommend that you clean and disinfect the Affinity® Three Birthing Bed and Affinity® Four Birthing Bed between patient use and regularly during extended patient stays. Refer to your facility's cleaning and disinfection policies, and follow the guidelines below.

**WARNING:**

Follow the product manufacturer's instructions. Failure to do so could cause injury or equipment damage.

**SHOCK HAZARD:**

The potential for electrical shock exists with electrical equipment. Failure to follow facility protocol could cause death or serious injury.

**SHOCK HAZARD:**

Failure to unplug the bed from its power source before you clean or disinfect the bed could cause injury or equipment damage.

**SHOCK HAZARD:**

Do not expose the bed to excessive moisture. Injury or equipment damage could occur.

**CAUTION:**

Do not steam clean or power wash the bed or mattress. Pressure and excessive moisture can damage the mattress and the protective surfaces of the bed and its electrical components.

**CAUTION:**

Do not use harsh or abrasive cleansers, solvents, or scouring pads. Equipment damage could occur.

**CAUTION:**

Make sure the bed frame and mattress are dry before you put the mattress on the bed. Failure to do so could cause equipment damage.

NOTE:

Clean and disinfect surfaces with nano Ag+® Technology as you would other surfaces. This product is not intended to protect users or others against bacteria, viruses, germs, or other disease organisms. Always disinfect Hill-Rom surfaces thoroughly after each use according to facility protocol. Refer to "Clean" and "Disinfect" below.

Clean and Disinfect

Clean

1. Unplug the bed.
2. Lock out the controls.
3. Remove all linens.
4. Use these to clean the bed:
 - A soft cloth soaked with warm water and a facility-approved general cleaning soap/detergent solution. Make sure the cloth is not so wet as to cause the cleaning solution to pool or flood on the mattress or other bed components.
 - A soft brush to remove stains and resistant soil. Do not use harsh or abrasive cleansers, solvents, or scouring pads.
5. Clean the bed. Give special attention to these areas:
 - Headboard—thoroughly clean as this is a high-touch area
 - Footboard
 - Siderails—thoroughly clean the high-touch areas (such as the upper and under sides of the siderail releases, pendants, and patient controls) and the latch areas and latch pins of the mount brackets
 - Bed frame
 - Casters
 - All other bed components
 - Fully-extended IV pole
 - Bed accessories that can be used again such as the mattress and patient helper

NOTE:

If you turn the mattress to clean it, make sure the cleaning solution does not pool or flow on to the other side or edges of the mattress. This may permit fluid to get into the mattress air outlets and zipper closures that ordinarily are protected by the ticking flaps.

6. Examine the condition of the mattress. If there are holes, tears, or other signs of damage or deterioration of the ticking, replace the mattress.
7. Disinfect the bed as described below.

Disinfect

Wipe down all surfaces with a facility-approved disinfectant, used in accordance with the manufacturer's instructions. Give special attention to high-touch areas such as the siderails, upper and under sides of siderail releases, pendants, patient controls, and headboards.

Care of Wood Components

Wood is selected for use on beds because of its beauty and warmth. All Hill-Rom® wood products are treated with a resin-based sealer and finish that provide resistance to abrasion, staining, fluids, and fire. Many disinfectant/cleansers have a “softening” effect on any painted or finished surface if used in high concentrations. Diluted ammonia, mild detergents, and diluted bleach solutions may be used. Clean by wiping a soft dampened cloth over the surface, followed by wiping with a dry cloth. At no time should a wet cloth be allowed to lay on the surface. Any liquid spilled on the surface should be wiped up immediately. Any liquid allowed to lay on the surface unattended may damage the finish. For protection of the finish we recommend using a liquid-type furniture polish. Polish about once a month, and wipe off any excess with a soft dry cloth. Have any nicks or scrapes repaired to prevent water damage.

Mattress Care and Draping

Correct draping technique is essential in preserving the life of the mattress. Drapes must be fluid repellent. The Hill-Rom labor and delivery drape effectively covers the lower three quarters of the bedding throughout labor. Additional pads or towels placed under the patient will help prevent fluid from reaching the edges of the drape. This safeguard keeps the sheets clean and dry while preventing fluid exposure to the mattress.

NOTE:

Standard OB packs and paper drapes will not keep the sheets dry.

Repeated soaking of mattress materials will accelerate wear and eventually destroy mattress seals, causing fluids to leak into the cushions.

Hill-Rom slipcovers are recommended to help extend the life of the mattress.

NOTE:

Mattress damage caused by improper draping and cleaning procedures is not covered by warranty.

NOTE:

Sheets must always be placed over the mattress before the bed is used by a patient.

The following products have been tested by the Herculite Laboratory and have been found not to have a harmful effect on Dartex® fabrics **when used in accordance with manufacturer's recommended dilution.**

Trade Name	Type	Manufacturer
A33	Quaternary	Airwick
Absolute	Quaternary	Walton-March
Beaucoup®	Phenolic	Huntington
Blue Chip	Quaternary	S.C. Johnson
Coverage 256	Quaternary	Vestal
El Dorado Plus	Quaternary	Puritan/Churchill
Elimstaph	Quaternary	Walter G. Legge
Forward DC	Quaternary	S.C. Johnson
Frenklin Sentine	Quaternary	Purex
Galahad®	Phenolic	Puritan/Churchill
Hi-Tor®	Quaternary	Huntington
Insurance	Quaternary	Vestal

Trade Name	Type	Manufacturer
LPH	Phenolic	Vestal
Matar®	Phenolic	Huntington
Omega	Quaternary	Airwick
Quanto®	Quaternary	Huntington
Sanicleen	Quaternary	West Chemical
Sanmaster III	Quaternary	Service Master
Surfacide™	Quaternary	Walton-March
Tri-Quat	Quaternary	Vestal
Vesphene® II	Phenolic	Vestal
Virex®	Quaternary	S.C. Johnson
Deep Purple	N/A	N/A
Betagone	N/A	N/A

Specifications

Specifications

Table 2. Product Identification

Product Number	Description
P3700A	Affinity® Three Birthing Bed
P3700B	Affinity® Four Birthing Bed, introduces Stow and Go™ Retractable Foot Section
P3700C	Affinity® Four Birthing Bed, updated foot section
P3700D	Affinity® Four Birthing Bed, introduces transport handles
P3700E	Affinity® Four Birthing Bed, EN 60601-1 3rd edition and IEC 60601-2-52 compliant

Table 3. Specifications

Feature	Dimension
Overall Length (maximum)	90" (229 cm) (A through C model beds) 92" (234 cm) (D model and newer beds)
Length from roller bumpers to break in seat section	61 7/8" (157 cm)
Length from break in the seat section to end of bed	28 1/8" (71 cm)
Maximum Width (siderails stored)	36" (91 cm)
Maximum Width (siderails up)	39" (99 cm)
Maximum Headboard Height	52" (132 cm)
Maximum Siderail Height (without mattress)	14 3/4" (37.47 cm)
Minimum Under-Bed Clearance	5" (13 cm), 3" (7.62 cm) for Stow and Go™ foot sections
Wheel Base	50" (127 cm) x 29" (74 cm)
Mattress Width	35" (89 cm)
Mattress Length	78" (198 cm)
Mattress Thickness (head/seat)	5" (12.7 cm)
Mattress Thickness (foot)	3.5" (8.9 cm)
Detachable Power Cord, IEC 320/interface	US, 84" (213 cm)/international, 98" (248.9 cm)
Caster Size	6" (15 cm) or 8" (20 cm)
Head Section Inclination (maximum)	63°
Seat Section Inclination (maximum)	15°
Bed Height Range	18" (46 cm) to 34" (86 cm)
Bed Height Range (with mattress)	22" (56 cm) to 38" (97 cm)
Trend-Like position (maximum)	8°
Bed Lift capacity (safe working load) ^a	500 lb (227 kg)
Maximum patient weight	470 lb (213 kg)
Foot Section Lift capacity (maximum)	400 lb (181 kg)
Head Section Lift capacity (maximum)	200 lb (91 kg)
Maximum Height of Seat Section (in Trend-Like position)	40" (102 cm)

a. Bed lift capacity (safe working load) includes mattresses, headboard, patient weight, any accessories or equipment on the bed, caregiver weight, and any visitors sharing the bed.

Table 4. Environmental Conditions for Transport and Storage

Condition	Range
Temperature	-40°F (-40°C) to 158°F (70°C)
Relative humidity	95% non-condensing
Pressure	500 hPa to 1060 hPa

Table 5. Environmental Conditions for Use

Condition	Range
Temperature	59°F (15°C) to 104°F (40°C) ambient temperature
Relative humidity range	10% to 85% non-condensing
Altitude	Medical electric equipment rated to operate at an altitude of less than 9842.5' (3000 m)

Table 6. Mains Power Requirements

Condition	Range
Rated voltage	120V AC/230V AC
Power/input	4 A/2 A
Frequency	50/60 Hz

Table 7. Fuse Specifications

Condition	Range
Air system fuse (air system optional)	2 A, 250 V~, 5 x 20 mm, UL 198G Fast Acting
Battery fuse	10 A, 32 V~, ATO
Mains fuse (120 V bed model)	4 A, 125 V~, 5 x 20 mm, UL 198G Slo-Blo® or equivalent
Mains fuse (230 V bed model)	2 A, 250 V~, 5 x 20 mm, IEC127 Sheet III, Time Delay, high-breaking capacity

Table 8. Bed Weight

Condition	A, B, and C Model Beds	D and E Model Beds
Bed weight—includes frame and plastic headboard only	464 lb (210 kg) (Lift off) 485 lb (220 kg) (Stow and Go)	480 lb (217 kg) (Lift off) 511 lb (232 kg) (Stow and Go)
Mattress—seat section and main mattress	25 lb (11 kg) (foam mattress) 26 lb (12 kg) (air mattress)	25 lb (11 kg) (foam mattress) 26 lb (12 kg) (air mattress)

Specifications

Table 8-1. Applied Parts (in accordance with IEC 60601-1)

Siderails	Headboard
Foot section—lift-off and Stow n Go	Labor grips
Mattress	Labor bar
Attached calf support	Detachable telescopic calf support
Detachable non-telescopic calf support	Detachable telescopic leg support
Detachable non-telescopic leg support	Armboard

Nurse Call Connection Requirements

For information about the Nurse Call connection requirements, refer to the *SideCom® Communication System Design and Application Manual* (DS059).

Table 9. Classification and Standards

The Affinity® Three Birthing Bed and Affinity® Four Birthing Bed are designed and manufactured according to equipment classifications and the following standards.

Technical and Quality Assurance Standards	EN 60601-1 and amendments, 2nd Edition (A through D model beds) EN 60601-1 3rd Edition (E model and newer beds) UL 60601-1 CSA® C22.2 No. 601.1 IEC 60601-2-38 (A through D model beds) IEC 60601-2-52 (E model and newer beds) IEC 60601-1-2 ISO 13485
Equipment Classifications per EN 60601-1	Class I equipment, internally powered equipment
Degree of Protection Against Electric Shock of the Applied Part	Type B
Classification according to Directive 93/42/EEC	Class I
Degree of Protection Against Ingress of Water	IPX2, A through D model beds IPX4, E model and newer beds
Degree of Protection Against the Presence of Flammable Anaesthetic Mixtures	Not for use with flammable anesthetics
Mode of Operation	Continuous operation with intermittent loading, 3 minutes ON/27 minutes OFF

Electromagnetic Emissions Guidance



CAUTION:

This device meets all requirements for electromagnetic compatibility per IEC 601-1-2 and the Medical Device Directive and has been fully tested to such requirements. 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 usage. If the user notes unusual device behavior, particularly if such behavior is intermittent and associated with nearby usage of radio or TV transmitters, cell phones, or electrosurgical equipment, this could be an indication of electromagnetic interference. If such behavior occurs, the user should try moving the interfering equipment further from this device.



WARNING:

The Affinity® Three Birthing Bed and Affinity® Four Birthing Bed should not be used adjacent to or stacked with other equipment and that if adjacent or stacked use is necessary, the Affinity® Three Birthing Bed and Affinity® Four Birthing Bed should be observed to verify normal operation in the configuration in which it will be used.

Make sure the Affinity® Three Birthing Bed or Affinity® Four Birthing Bed operates correctly when it is used near other electronic devices.

Portable and mobile radio frequency (RF) communications equipment can affect medical electrical equipment.


Medical electrical 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 this manual.

The use of accessories, transducers, and cables other than those specified, with the exception of transducers and cables sold by the manufacturer of this device as replacement parts for internal components, may result in increased emissions or decreased Immunity of the Affinity® Three Birthing Bed and Affinity® Four Birthing Bed.

Guidance and Manufacturer's Declaration—Electromagnetic Emissions		
The Affinity® Three Birthing Bed and Affinity® Four Birthing Bed are intended for use in the electromagnetic environment specified below. The customer or the user should make sure that they are used in such an environment.		
Emissions Test	Compliance	Electromagnetic Environment—Guidance
RF emissions CISPR 11	Group 1	The Affinity® Three Birthing Bed and Affinity® Four Birthing Bed use RF energy only for their internal functions. Therefore, their RF emissions are low and are not likely to cause any interference in nearby electronic equipment.
RF Emissions CISPR 11	Class B	
Harmonic Emissions IEC 61000-3-2	Class A	
Voltage Fluctuations/ Flicker Emissions IEC 61000-3-3	Complies	The Affinity® Three Birthing Bed and Affinity® Four Birthing Bed are suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.

Specifications

Guidance and Manufacturer's Declaration - Electromagnetic Immunity			
The Affinity® Three Birthing Bed and Affinity® Four Birthing Bed are intended for use in the electromagnetic environment specified below. The customer or the user should make sure that they are used in such an environment.			
Immunity Test	IEC 60601 Test Level	Compliance Level	Electromagnetic Environment—Guidance
Electrostatic Discharge (ESD) IEC 61000-4-2	± 6 kV Contact ± 8 kV Air	± 6 kV Contact ± 8 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 for Power Supply Lines ± 1 kV for Input/ Output Lines	± 2 kV for Power Supply Lines ± 1 kV for Input/ Output Lines	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	± 1 kV line(s) to line(s) ± 2 kV line(s) to ground	± 1 kV line(s) to line(s) ± 2 kV line(s) to ground	Mains power quality should be that of a typical commercial or hospital environment.
Power Frequency Magnetic Fields IEC 61000-4-8	3 A/m	3 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment. When the inputs are greater than 5.5 Vrms, it may damage the speaker system.
Voltage Dips, Short Interrupts, & Variations On Power Supply Lines IEC 61000-4-11	< 5% U_T (95% dip in U_T for 0.5 cycles) < 40% U_T (60% dip in U_T for 5 cycles) < 70% U_T (30% dip in U_T for 25 cycles) < 5% U_T (95% dip in U_T for 5 seconds)	< 5% U_T (95% dip in U_T for 0.5 cycles) < 40% U_T (60% dip in U_T for 5 cycles) < 70% U_T (30% dip in U_T for 25 cycles) < 5% U_T (95% dip in U_T for 5 seconds)	Mains power quality should be that of a typical commercial or hospital environment. If the user of the Affinity® Three Birthing Bed and Affinity® Four Birthing Bed requires continued operation during power mains interruptions, it is recommended that the Affinity® Three Birthing Bed and Affinity® Four Birthing Bed be powered from an uninterruptible power supply or battery.
Note: U_T is the AC mains voltage prior to application of the test level.			

Guidance and Manufacturer's Declaration - Electromagnetic Immunity			
The Affinity® Three Birthing Bed and Affinity® Four Birthing Bed are intended for use in the electromagnetic environment specified below. The customer or the user of the Affinity® Three Birthing Bed and Affinity® Four Birthing Bed should make sure they are used in such an environment.			
Immunity Test	IEC 60601 Test Level	Compliance Level	Electromagnetic Environment—Guidance
Conducted RF IEC 61000-4-6	3 Vrms 150 kHz to 80 MHz	3 V	<p>Portable and mobile RF communications equipment should be used no closer to any part of the P3700, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.</p> <p>Recommended separation distance</p> $d = 1.2 \sqrt{P}$ $d = 1.2 \sqrt{P} \quad 80 \text{ MHz to } 800 \text{ MHz}$ $d = 2.33 \sqrt{P} \quad 800 \text{ MHz to } 2.5 \text{ GHz}$ <p>Where <i>P</i> is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and <i>d</i> is the recommended separation in metres (m).</p> <p>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^b.</p> <p>Interference may occur in the vicinity of equipment marked with this symbol.</p> <div></div>
Radiated RF IEC 61000-4-3	3 V/m 80 MHz to 2.5 GHz	3 V/m	
<p>Note 1: At 80 MHz and 800 MHz, the higher the frequency range applies.</p> <p>Note 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.</p>			

- 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 Affinity® Three Birthing Bed and Affinity® Four Birthing Bed are used exceeds the applicable RF compliance level above, the Affinity® Three Birthing Bed and Affinity® Four Birthing Bed should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the Affinity® Three Birthing Bed and Affinity® Four Birthing Bed.
- b. Over the frequency range of 150 kHz to 80 MHz, field strength should be less than 3 V/m.

Specifications

Recommended separation distances between portable and mobile RF communications equipment and the P3700 Affinity® Three Birthing Bed and Affinity® Four Birthing Bed			
The P3700 Affinity® Three Birthing Bed and Affinity® Four Birthing Bed are intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the P3700 Affinity® Three Birthing Bed and Affinity® Four Birthing Bed can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the P3700 Affinity® Three Birthing Bed and Affinity® Four Birthing Bed as recommended below, according to the maximum output power of the communications equipment.			
Rated maximum output power of transmitter, W	Separation distance according to frequency of transmitter, m		
	150 kHz to 80 MHz $d = 1.2\sqrt{P}$	80 MHz to 800 MHz $d = 1.2\sqrt{P}$	800 MHz to 2.5 GHz $d = 2.3\sqrt{P}$
0.01	0.12	0.12	0.23
0.1	0.38	0.38	0.73
1	1.2	1.2	2.3
10	3.8	3.8	7.3
100	12	12	23
<p>For transmitters rated at a maximum output power not listed above, the recommended separation distance d in metres (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.</p> <p>Note 1: At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.</p> <p>Note 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.</p>			

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