

PRELIMINARY



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**Manual**





Distributed by:  
FXI

Rose Tree Corporate Center II  
1400 North Providence Road  
Suite 2000  
Media, PA 19063-2076  
800-355-3626

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FXI provides a written warranty on the sale of its products only.

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# IMPORTANT SAFEGUARDS

**Read ALL Instructions BEFORE Using This Product**

## IMPORTANT NOTICE:

The equipment has to be installed and operated in the manner for which it was intended. Facility staff/user is responsible for reading and understanding the product user manual and contacting FXI if anything in this manual is unclear. FXI will not be held responsible for any injuries resulting from failure to comply with the instructions and precautions in this manual.

## WARNING:

The FXI specialty support surfaces are designed to fit on a standard bed frame. The risk of entrapment can arise when the equipment is placed on bed frames that leave gaps of even a few inches between the mattress and the headboard, footboard, and bed or side rails. The equipment is NOT to be used when such gaps are present.

Facility staff/user is responsible for ensuring that all mattresses properly fit the bed frames. FXI is not responsible for the placement of its equipment on bed frames that leave gaps between the mattress and the headboard, footboard or bed or side rails which present a risk of harm to patients.

## WARNING: (See Safety Information in “Nursing Procedures” Section)

The safe use of the equipment is maximized when used in conjunction with bed rails and there may be an increased risk of falls when such bed rails are not present. Serious injury or death can result from the use (potential entrapment) or non-use (potential patient falls) of side rails or other restraints. Local policies regarding the use of side rails should be taken into account. Whether and how to use side rails is a decision that should be based on each patient's individual needs and should be made by the physician, caregivers and responsible parties.

When using the mattress system always ensure that the patient is positioned properly within the confines of the bed. Do not let any extremities protrude over the side or between the bed rails when the mattress is being used.

## **⚠ DANGER EXPLOSION HAZARD:**

DO NOT USE IN THE PRESENCE OF FLAMMABLE ANAESTHETICS. DO NOT USE IN THE PRESENCE OF SMOKING MATERIALS OR OPEN FLAME. AIR FLOWING THROUGH THE AIR MATTRESS WILL SUPPORT COMBUSTION.

## **⚠ WARNING:**

A possible fire hazard exists. This product is suitable for use with oxygen administering equipment of the nasal, mask, or half bed-length, tent-type only. To prevent personal injury or equipment damage, ensure that the oxygen tent does not extend below the mattress

## **⚠ DANGER:**

To reduce the risk of shock, perform the following instructions. Failure to do so could result in personal injury or equipment damage.

- 1) Immediately after using the Symbioso Power Play, unplug it from its power source.
- 2) Do not place or store the product where it can fall or be pulled into a tub or sink.
- 3) Do not place or drop the product into water or other liquid.
- 4) Do not remove the enclosure of the Surface Power Unit. Refer servicing to Linet.

## **⚠ WARNING:**

To reduce the risk of burns, shock, fire, or personal injury, perform the following instructions. Failure to do so could result in personal injury or equipment damage.

- 1) Use this product only for its intended use as described in this manual. Only use attachments and/or accessories that are recommended by the manufacturer.
- 2) The AC Power Cord acts as the main disconnect for this device. Make sure to maintain adequate access to the AC power connection.
- 3) If this product has a damaged power cord or plug, is not working properly, has been dropped or damaged, or has been dropped into water, do not operate it. For examination and repair, return the product to FXI.
- 4) Keep the Surface Power Unit, Pendant and power cord away from heated surfaces, i.e. space heaters.
- 5) For best performance void blocking the air openings in the mattress Surface Power Unit output grill or on

the mattress input grill.

- 6) Never drop or insert any object into any grill opening
- 7) When storing the Surface Power Unit separately from the mattress take care not to spill food or liquids onto the Surface Power Unit.
- 8) The optional Surface Power Unit is designed to be used as part of the FXI Power Play support surface. Do not operate the Surface Power Unit outside the mattress.
- 9) Do not use the product outdoors, or where aerosol-spray products are used.
- 10) Plug this product only into a properly grounded outlet. Refer to "Grounding Instructions".
- 11) Be sure nothing is placed on the power cord and ensure it is not located where it can be stepped on or tripped over.
- 12) Do not attempt to service the Surface Power Unit or Pendant. Please call Linet for any service requests.

## **SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE**

## INTRODUCTION

The **FXI Power Play**, provided by FXI is a unique therapy system that provides pressure relief and, with the *optionally* installed Surface Power Unit/Pendant, Low Air Loss moisture control therapy.

Moisture control through Low air Loss therapy has been demonstrated to reduce the risk of and aid in the treatment of pressure ulcers (bed sores caused by loss of skin blood flow).

The **FXI Power Play** mattress replacement system is suitable for the care and prevention of all stages of pressure ulcers and for patients who have been assessed to be at risk from the complications of immobility. The **FXI Power Play** is quiet and simple enough for single caregiver installation. The user-friendly controls allow for easy adjustment of patient comfort.

Additionally, low friction and shear materials together with average interface pressures well below capillary closing pressure means that the **FXI Power Play** mattress system meets the comfort and clinical requirements of patients up to 500 pounds.

We have ensured that the **FXI Power Play** addresses the three key areas in the treatment of compromised skin:

- Pressure relief
- Moisture control
- Reduction in shearing forces

### PRESSURE RELIEF

**FXI Power Play** is a convertible dynamic pressure relieving mattress system that has two modes of operation:

- Non-powered
- Powered Low Air Loss

Powered mode requires the installation of the **FXI Power Play** Surface Power Unit and Pendant. The non-powered mode requires only that a Surface Power Unit not be turned on or not installed.

### MOISTURE CONTROL

Patients are at risk for skin maceration if excess moisture is permitted to accumulate beneath the patient. This may be due to perspiration, incontinence or wound drainage. On the **FXI Power Play** moisture is controlled via the specially treated, semi-permeable protective laminate cover. Moisture control can be further enhanced through the use of the optional "Surface Power Unit" to provide Low Air Loss therapy capability.

### SHEAR AND FRICTION REDUCTION

Shearing occurs when the skin is stationary in relation to the support surface, while the underlying tissues and vessels are stretched and damaged. When a patient's skin rubs against another surface, the result is friction. The top surface of the **FXI Power Play** therapy cover is constructed from a very smooth fabric with low friction and shear properties to protect the patient's skin from these damaging forces.

# INDICATIONS FOR USE

## PRESSURE RELIEF

Patients with these conditions could be candidates for the **FXI Power Play** mattress system:

- Pressure Ulcers
- Rehabilitation
- Neurology
- Dermatology
- Burns
- Amputations

The selection of a pressure-relieving surface needs to be based on each individual patient's clinical condition or diagnosis and co-morbidities. The **FXI Power Play** mattress system provides pressure relief well below capillary closing levels and allows for adequate perfusion to promote healing.

## PAIN MANAGEMENT

Patients with these conditions could be candidates for the FXI Power Play mattress system:

- AIDS
- Arthritis
- Oncology

The **FXI Power Play** mattress system provides uniform distribution of weight over a wide surface area, which relieves pressure against bony prominences and provides a soft, gentle therapy surface to lie on. For patients experiencing severe pain and discomfort due to pressure and/or positioning limitations, consider the **FXI Power Play** mattress system as an adjunct to pain management interventions.

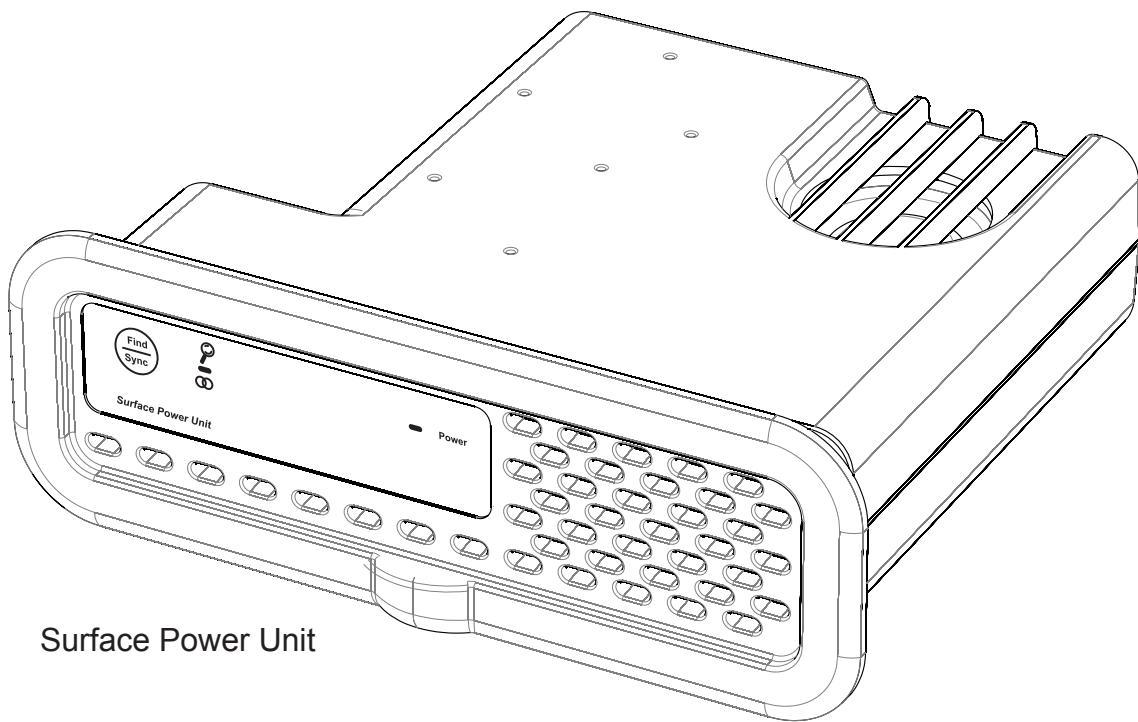
## FEATURES

The **FXI Power Play** Surface Power Unit is comprised of two components, designed to work with the FXI Power Play mattress.

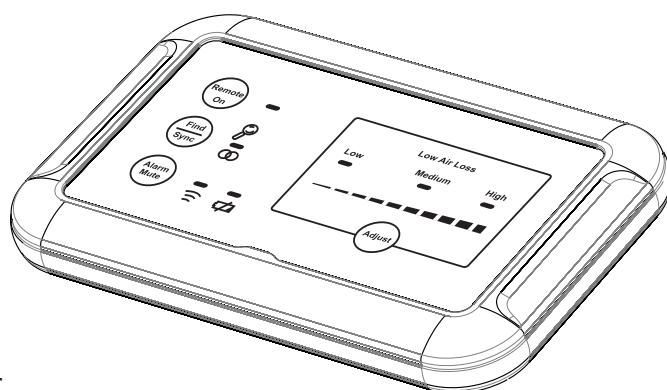
**Surface Power Unit** – This fits into the mattress and is connected to a wall outlet through a external low voltage power supply.

**Pendant control** - This wirelessly connects to the in mattress Surface Power Unit and is used to control the Low Air Loss therapy level.

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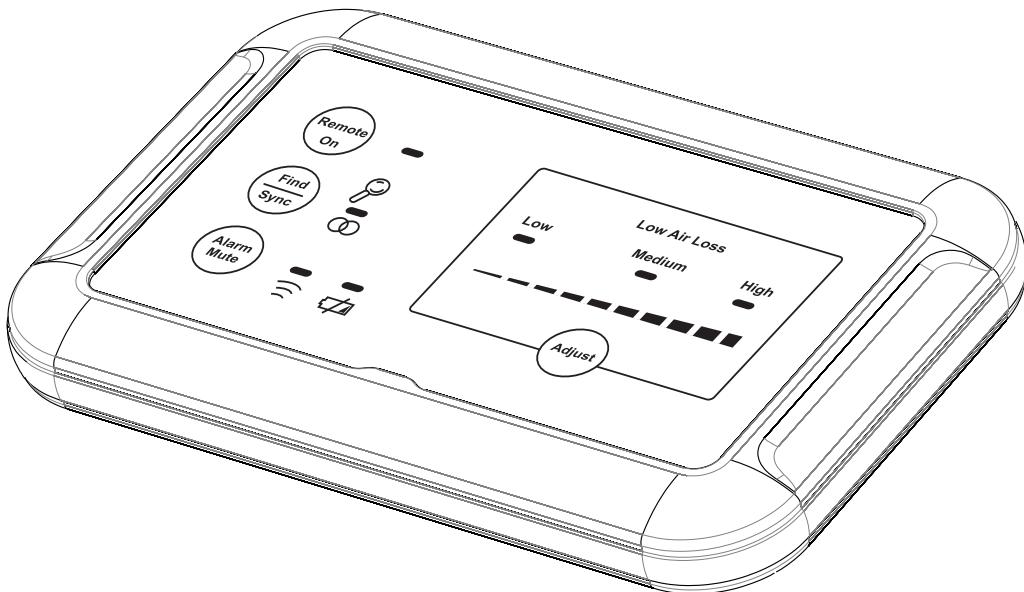
Surface Power Unit



Pendant

## FXI Power Play Surface Power Unit:

- Remote control Pendant – This is synchronized to the mattress Surface Power Unit that it is shipped with but can easily be re programmed to an alternate Surface Power Unit if necessary.
- Low, Medium and High settings for Low Air loss
- Compact lightweight Surface Power Unit is quiet, energy efficient and runs off a safe low voltage source.
- Automatic lock out on the remote Pendant control 2 minutes after the last adjustment. The system is woken by pressing the Remote/On button for 5 seconds.



## FXI Power Play Mattress:

- The non-powered mattress easily converts to powered Low Air Loss functionality with the incorporation of the FXI Power Play Surface Power Unit and Pendant.
- Sturdy foam surround for additional patient security and comfort
- 360° zippered, anti-bacterial, therapy cover is constructed of a semi-permeable protective laminate.
- Low shear vapor permeable therapy cover.
- Internal fully enclosed fire barrier surround.
- Supports patients weighing up to 500 lbs.
- Easy installation of the powered Surface Power Unit

## GROUNDING INSTRUCTIONS

### **⚠ WARNING:**

Use a properly grounded, three-prong, 120V AC outlet for this product. Failure to use a grounded outlet could result in personal injury or damage to equipment or house wiring, including risk of fire. A qualified electrician should be contacted to correct the wiring and ensure a properly grounded outlet.

Before installing this product, have your electrical system checked to make sure the electrical circuits and the electrical service are properly grounded.

Just because your outlet has three prongs doesn't necessarily mean it is grounded. Sometimes two-prong outlets are replaced with a three-prong type even though there is no ground wire. There is always a chance of a loose connection or poor installation of a ground wire that causes the loss of proper ground at the outlet. Inadequate grounding at electrical outlets can occur even if there is a ground wire. Wires can become loose over time at the connection to the outlet.

***TO INSTALL NEW WIRES ON A CIRCUIT REQUIRES A QUALIFIED ELECTRICIAN.***

### **How to determine if your outlet has the proper grounding.**

Most hardware stores sell circuit testers that can be used to test an outlet for proper grounding. The tester plugs into an outlet and by observing the indicator lights you can determine if the outlet is properly grounded. For a higher level of assurance, an electrician should be requested to thoroughly test the electrical system with more reliable equipment.

If repair or replacement of the cord or plug is necessary please contact FXI for assistance.



## SYSTEM SPECIFICATIONS

### Surface Power Unit

Weight:	1.9 lbs.	(0.9 Kg)
Dimensions:	11.25"	(28.6 cm) W
	3.96"	(10.1 cm) H
	9.24"	(23.5 cm) D

### Pendant

Weight:	0.8 lbs.	(0.4 Kg)
Dimensions:	7.55"	(19 cm) W
	1.55"	(4 cm) H
	4.9"	(12.5 cm) D

### Mattress

Weight :	29.7 lbs.	(58.8 Kg)
Max patient weight:	500 lbs.	(227 Kg)
Dimensions:	36"	(93 cm) W
	80"	(203 cm) H
	6"	(20 cm) D

## ELECTRICAL SPECIFICATIONS

### Surface Power Unit

100-240 VAC  
50-60Hz  
15Watts Max  
IP24

### Pendant

4.5 VDC 3x AA Alkaline Batteries  
Use only (Alkaline Batteries)  
IP45

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FXI Power Play User Manual

## ENVIRONMENTAL CONDITIONS

### Operating Conditions:

Ambient Temperature: +60°F to +100°F  
Relative Humidity: 5% to 90% Non-Condensing

### Storage and Shipping Conditions:

Ambient Temperature: 32°F to +120°F  
Relative Humidity: 5% to 90% Non-Condensing

### Disposal:

Please dispose of this unit in accordance with local regulations

### Equipment Symbols



Refer to user manual.



Type BF.



Do not dispose with Municipal Waste.  
Special Collection/Disposal Required.



CE Mark.



Manufactured.



Follow Instructions For Use



Protective Earth (ground)



## AGENCY APPROVALS

### Mattress

CPSC 1632 Cigarette Test  
CPSC 1633 Open Flame Test

### Surface Power Unit

UL Classified Medical Electrical Equipment  
UL 60601-1, UL 60601-4, IEC 60601-2  
CAN/CSA C22.2 No. 601.1

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### FCC Compliance statement (United States)

FCC Class B Part 15

This device complies with Part 15 of the Federal Communications Commission (FCC) Rules. The FCC ID for this device is **XXX-LAL001**. Operation is subject to the following two conditions.

- This device may not cause harmful interference.
- This device must accept any interference received including interference that may cause undesired operation.

**CAUTION:** Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the users authority to operate this equipment.

## IEC 60601-1-2 Table 1

### Electromagnetic Emissions

The PowerPlay support surface system is intended for use in the electromagnetic environments specified below. The customer or user of the PowerPlay support surface system should assure that it is used in such an environment.

Emission Test	Compliance	Guidelines
RF Emissions CISPR 11	Group 1	The PowerPlay support surface uses RF energy only for its internal function. Therefore the RF emissions created by the PowerPlay products are very low and are not likely to cause any interference in nearby electronic equipment.
RF Emissions CISPR 11	Class B	
Harmonic Emissions IEC 6100-3-2	Class A	
Voltage Fluctuations / Flicker Emissions IEC 6000-3-3	Complies	The PowerPlay support surface is 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.

**Electromagnetic Immunity**

The PowerPlay support surface system is intended for use in the electromagnetic environments specified below. The customer or user of the PowerPlay support surface system should assure that it is used in such an environment.

Immunity Tests	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 materials (carpet) 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 differential mode  ± 2 kV common mode	± 1 kV differential mode  ± 2 kV common mode	Mains power quality should be that of a typical commercial hospital environment.
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	< 5 % UT (>95 % dip in UT) for 0.5 cycle  40% UT (60 % dip in UT) for 5 cycles  70 % UT (30 % dip in UT) for 25 cycles  < 5 % UT (>95% dip in UT) for 5 seconds	< 5 % UT (>95 % dip in UT) for 0.5 cycle  40% UT (60 % dip in UT) for 5 cycles  70 % UT (30 % dip in UT) for 25 cycles  < 5 % UT (>95% dip in UT) for 5 seconds	Mains power quality should be that of a typical commercial or hospital environment. If the user of the Power Play support surface system requires continued operation during power mains interruptions, it is recommended that the PowerPlay support surface be powered by an uninterruptible power supply or a battery.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	3 A/m	3 A/m	Power frequency magnetic fields should be at levels of a typical location in a typical commercial or hospital environment.
NOTE 1: UT is the A.C. mains voltage prior to application of the test level.			

### Electromagnetic Immunity

The PowerPlay support surface system is intended for use in the electromagnetic environments specified below. The customer or user of the PowerPlay support surface system should assure that it is used in such an environment.

Immunity Tests	IEC 60601 Test Level	Compliance Level	Electromagnetic Environment Guidance
Conducted RF IEC 61000-4-6	3 Vrms 150kHz To 80 MHz	3 Vrms	<p>Portable and mobile RF communications devices should not be used any closer to any part of the PowerPlay system, including cables, than the recommended separation distance calculated using the equation applicable to the frequency of the transmitter.</p> <p>Recommended separation distance</p> $d = 1.2\sqrt{P}$ <p>80 MHz to 800 MHz =  <math display="block">d = 1.2\sqrt{P}</math></p> <p>800 MHz to 2.5 GHz  <math display="block">d = 2.3\sqrt{P}</math></p> <p>Where "P" is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and "d" is the recommended separation distance in meters (m)</p> <p>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.</p> <p>Interference may occur in the vicinity of equipment marked with the following symbol:</p> 
Radiated RF IEC 6100-4	3 V/m 80 MHz to 2.5 GHz	3 V/m	

NOTE 1: At 80 MHz and 800 MHz the higher frequency range applies

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

a Field strengths from fixed RF 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 PowerPlay is used exceeds the applicable RF compliance level above, the PowerPlay operations should be closely observed to verify normal operation. If abnormal performance is observed, additional measure may be necessary, such as re-orienting or relocating the PowerPlay support surface system.

b Over the frequency range of 150 kHz to 80 MHz, the field strengths should be less than 3 V/m

**Recommended separation distance between portable and mobile RF communications equipment and the PowerPlay support surface**

The PowerPlay support surface system is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or user of the PowerPlay support surface system can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (Transmitters) and the PowerPlay support surface as recommended below, according to maximum output power of the communications equipment.

Rated maximum output power of transmitter  W	Separation distance according to frequency of transmitter		
	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

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

NOTE 1 At 80MHz, the separation distance for the higher frequency range applies.

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

# SETUP

## ⚠ WARNING:

For important safeguards, please see page 4.

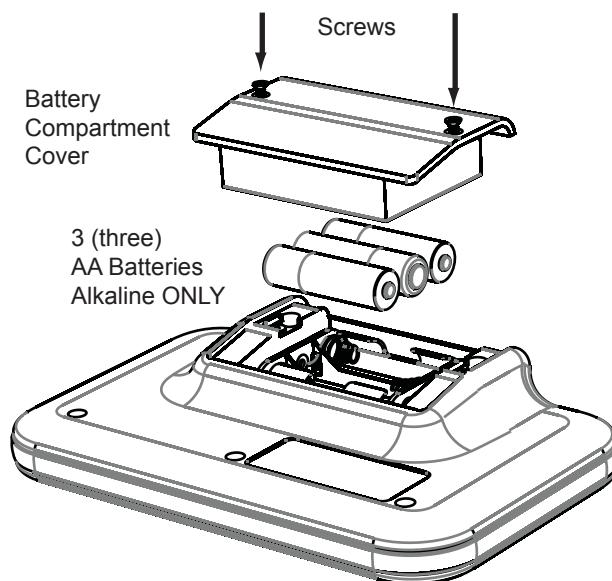
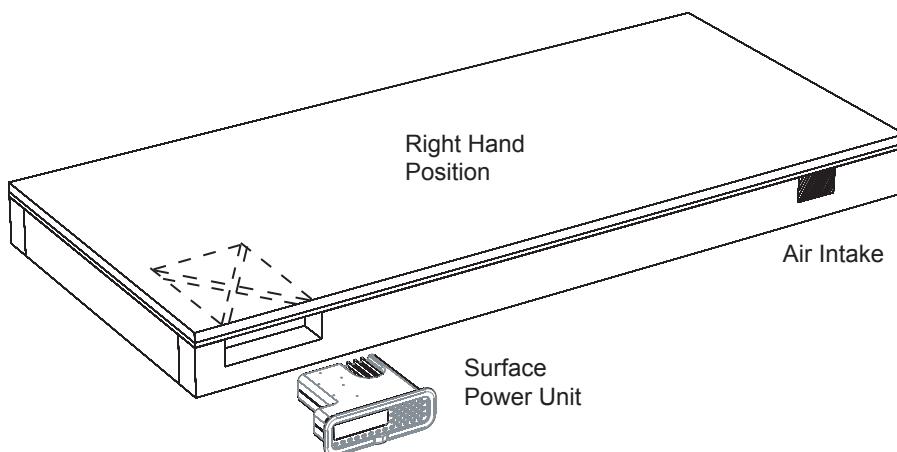
## ⚠ CAUTION:

Position the power cord to keep personnel from tripping over it. When the product is not in use, properly store the power cord. Failure to do so could result in personal injury.

Note: The Pendant and Surface Power Unit are synchronized prior to shipping. It should not be necessary to repeat this function if the Pendant stays with the Surface Power Unit it has been shipped with. If the two units become separated, or it becomes necessary to synchronize another Pendant / Surface Power Unit pair, then follow the instructions under 'Patient User controls and monitoring' below.

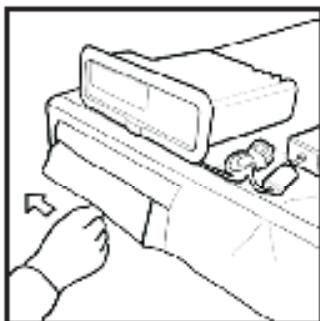
## Illustrated Instructions On Next Page

- 1) Remove the existing mattress from the bed and store it.
- 2) Place the FXI Power Play mattress with the logo at the foot end of the bed.
- 3) Place the patient on the mattress.
- 4) If preferred, install the **FXI Power Play** Surface Power Unit the mattress at the foot of the bed.
- 5) Un-zipper the opening at the foot end of the bed for the Surface Power Unit.
- 6) Install the Surface Power Unit and prepare to connect it to the wall power outlet.
- 7) Use only (Alkaline) (3)AA batteries in the Pendant using a Philips screwdriver. (See Illustration.)
- 8) Plug in the Surface Power Unit to the wall power supply - the Power indicator on the face of the Surface Power Unit will illuminate
- 9) To adjust the Low Air Loss settings on the Pendant press the Remote/On button for 5 seconds to 'wake up' the wireless connection between the Pendant and the mattress Surface Power Unit. Press the Adjust button to cycle through the Low Air Loss options - Off (no illuminated indicator), Low, Medium, High and back to Off
- 10) When removing the Surface Power Unit, pull the retractable insert flush with mattress edge and use the zipper to close the access flap.



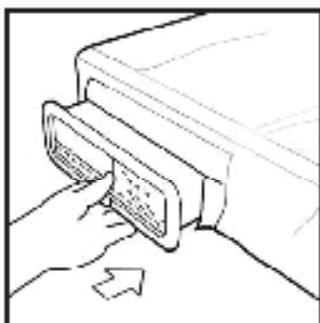


## SPU Installation



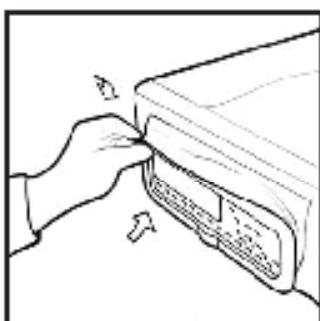
**1**

Unzip the flap at the foot of the mattress to provide access to the SPU cavity.



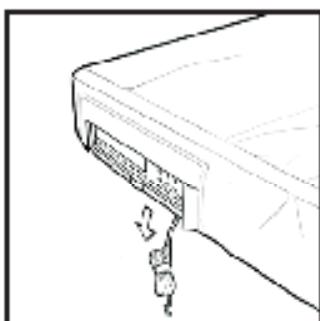
**2**

Insert the Surface Power Unit into the mattress cavity.



**3**

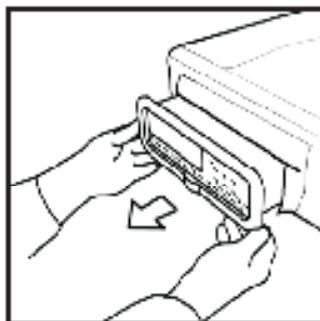
Position the mattress flap over the SPU to prevent accidental fluid ingress to the mattress.



**4**

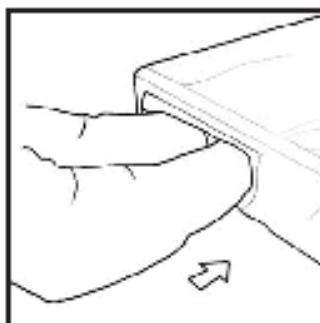
Connect the Surface Power Unit to an appropriate power source.

## SPU Removal



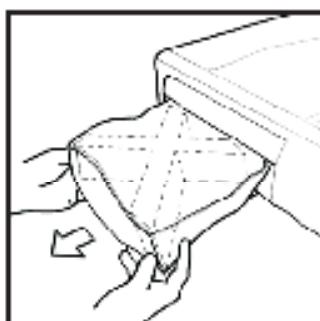
**1**

Unplug the SPU from the power source, then pull to remove the SPU from the mattress cavity.



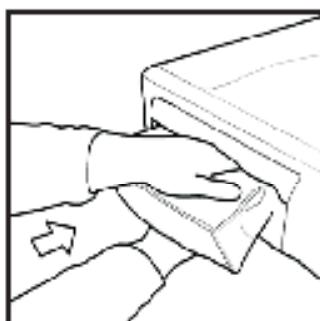
**2**

Reach in and gently remove the expandable insert from the cavity.



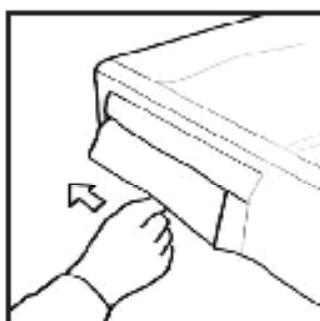
**3**

Fluff the cavity insert to allow the compressible insert to expand fully.



**4**

Carefully insert the cavity filler into the mattress.



**5**

Zip closed the Surface Power Unit cavity to complete removal.

# OPERATION

## **⚠ WARNING:**

*For important safeguards, please see page 4 and 5.*

## **⚠ CAUTION:**

The patient's head should be positioned in the center of the top section of the mattress. When using the mattress system always ensure that the patient is positioned properly within the confines of the bed. Do not let any extremities protrude over the side or between the bed rails when the mattress is being used.

# NURSING PROCEDURES

## RECOMMENDED LINEN

Special linens are not necessary for the **FXI Power Play** mattress there is no need for a bottom sheet. The therapy pad should be covering the inner structure at all times. Other considerations may be made for additional linens as outlined below:

- Draw sheet to aid in positioning and to further minimize friction and shearing.
- Incontinence barrier pad for patients incontinent of urine and stool, and patients with highly draining wounds.
- Add top sheet, blanket and bedspread as needed for patient comfort.
- Keep the amount of padding between the patient and bed to a minimum for optimum performance.

## PATIENT POSITIONING AND COMFORT

### General Repositioning:

- Patients should be turned and repositioned per an individual turning schedule or per facility policy.
- If it is not counter indicated, it is desirable to keep the head of the bed in the low position to provide optimal pressure relief and minimize the risk of shearing injuries.

### Elevating patient into sitting position:

The special properties of the **FXI Power Play** reduce the opportunity for shear and friction that may occur when raising the head of other beds. As with any surface, sliding can be expected, therefore patients should be repositioned after elevation. The knee gatch or foot of the bed may be elevated first, to help prevent the patient from sliding when the head of the bed is elevated.

## PLACEMENT AND REMOVAL OF BEDPAN

Place the bedpan by using the following steps:

1. Turn the patient away from you to a side-lying position.
2. Depress the bedpan into the body section and turn the patient back onto the pan.

Remove the bedpan by repeating steps one and two.

## USE OF HEEL AND/OR ELBOW PROTECTORS

Utilization of protectors is a nursing decision and should be considered on an individual patient basis. It is always recommended to pad any area where bony prominences lay against other bony prominences (i.e., area between knees, ankles, etc). Patients should be individually assessed for the need to float heels.

## CONTRACTURES

Contractures and foot drop are a concern for all bedridden and immobilized patients. Physical therapy and any prescribed exercises may be performed on the **FXI Power Play** as is done on any traditional hospital bed.

## INCONTINENCE

- Moisture against the skin surface leads to maceration, or softening of the tissues. To prevent maceration, we recommend you use an incontinence barrier pad to absorb the excess moisture. It is recommended to use only pads that do not have a plastic backing. Plastic backed pads will significantly reduce the benefits of the moisture control functions of the mattress.
- In the event of incontinence or excess drainage, you should wipe off the excess fluid from the bed surface.

## SAFETY INFORMATION

**Patient Migration** – Specialty bed products are designed to reduce pressure and the shearing/friction forces on the patient's skin. The risk of gradual movement and/or sinking into hazardous positions of entrapment and/or inadvertent bed exit may be increased due to the nature of these products.

**Traction** – With any traction or unstable fractures, maintain physician-directed angle of articulation and guard against risks of patient migration or inadvertent deflation of patient surface.

**Skin Care** – Monitor skin conditions regularly, particularly in areas where incontinence and drainage occur or collect, and consider adjunct or alternative therapies for high acuity patients. Early intervention may be essential to preventing serious skin breakdown.

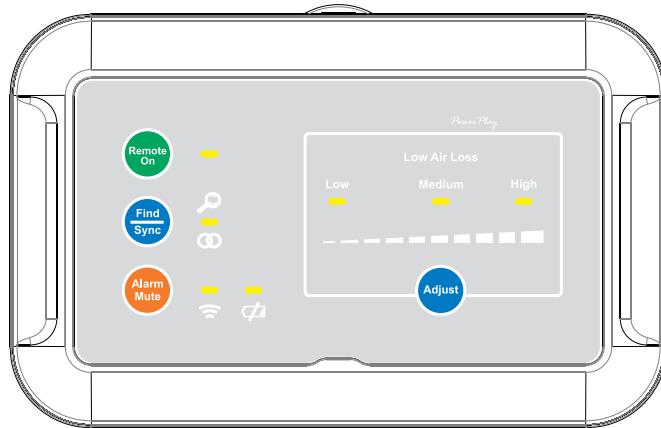
**Bed Height** – To minimize the risks of falls or injury the patient surface should always be in the lowest practical position when the patient is unattended. Make sure areas under and around the frame are clear of objects, persons and parts of body before adjusting height.

## Pendant Controller

### Functions and Controls

#### REMOTE ON

To preserve battery life the Pendant goes into a low power “sleep” mode after 1 minute of inactivity. The REMOTE ON LED will be off. Pressing the REMOTE ON button for 5 seconds will activate the Pendant and the current system setting will be displayed. The REMOTE ON LED will flash to indicate the pendant is active and ready to accept commands.



#### FIND / SYNC

FIND – The FIND feature makes it easy to identify the Surface Power Unit that is paired with a specific Pendant. To identify the Surface Power Unit, momentarily press (<5sec) the FIND/SYNC button on the Pendant. The FIND/SYNC LED's on both the pendant and the Surface Power Unit will flash and the Surface Power Unit will emit an intermittent audible tone three (3) times.

SYNC - The Pendant and Surface Power Unit are synchronized prior to shipping. If it becomes necessary to pair a New Pendant with a mattress, follow these simple steps:

- Ensure that the Surface Power Unit is powered ON and that the Pendant controller has batteries installed. (Replace batteries if the “Low Battery” indicator is illuminated).
- Press the FIND/SYNC button on the Surface Power Unit for 5 seconds, then repeat using the FIND/SYNC button on the Pendant controller. The FIND/SYNC LED's on both the Surface Power Unit and Pendant will illuminate during the pairing process.
- The FIND/SYNC LED and the audible buzzer on both the Surface Power Unit and Pendant controller will blink/sound rapidly five (5) times to indicate successful synchronization.

#### ALARM MUTE

The **Alarm Mute** button will silence the audible alarm on both the Surface Power Unit and Pendant controller. The **Alarm Mute** button should also be used to clear a FIND function

initiated from the SPU.

#### ADJUST

With the Pendant ‘ON’ (see Remote ON above) Press the Adjust button to cycle through the Low Air Loss settings - (Low, Medium, High, Off- no indicators lit).

#### Indicators

#### REMOTE ON

- Blinking when pendant controller is ON and ready to accept commands.
- OFF indicates “sleep” mode

#### FIND/SYNC

- OFF when Pendant controller is properly paired with the Surface Power Unit and is within range.
- Illuminated during a FIND or SYNC function.
- Flashes rapidly (5) times to indicate a successful pairing operation.

#### RANGE

- OFF when the Pendant Controller is within range of the Surface Power Unit.
- Flashes when the Pendant controller is out of range of the Surface Control Unit.
- OFF in “sleep” Mode.

#### LOW BATTERY

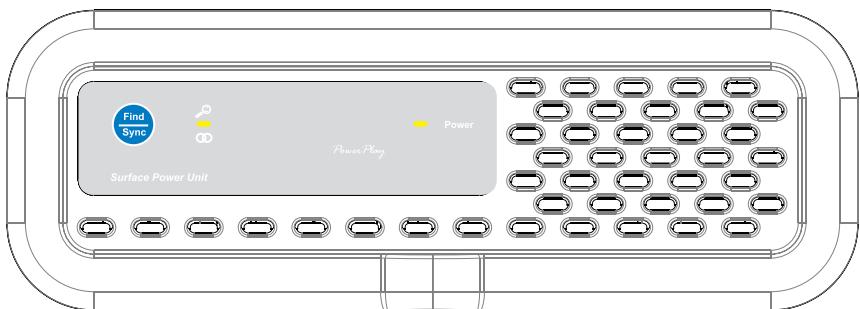
- Blinks once every 10 seconds to indicate a low battery condition.
- OFF indicates proper battery operation.

#### THERMAL PROTECTION

- The three (3) Fan speed indicators will blink simultaneously if the Surface Power Unit has detected an over temperature condition.

## Surface Power Unit

### Functions and Controls



#### FIND / SYNC

FIND – The FIND feature makes it easy to locate a misplaced Pendant controller. To identify the Pendant Controller that is paired with a particular Surface Power Unit, momentarily press (<5sec) the FIND/SYNC button on the Mattress. The FIND/SYNC LED on both the pendant and SPU will flash and the Pendant will emit an audible tone “beep” for 1 minute. Pressing the ALARM MUTE button on the Pendant controller will silence the alarm and clear the FIND function.

SYNC-See description for SYNC function in the pendant controller section.

#### Indicators

#### Power

- when the Surface Power Unit is connected to a power source and is ready for operation.

#### Find / Sync

- OFF when Surface Power Unit is properly paired and the Pendant controller is within range.
- Flashes 1/sec during a FIND function.
- Illuminated during the SYNC function
- Flashes rapidly (5) times to indicate a successful pairing operation.

## ALARM FEATURES

#### Low Battery

If the battery charge begins to become insufficient the Low Battery LED and audible alarm will flash/sound once every 10 seconds. The audible alarm can be silenced by pressing the alarm mute key. The alarm LED will continue to flash until the batteries are replaced.

#### OUT OF RANGE

If the Pendant controller is brought out of range from the Surface Power Unit the FIND/SYNC LED will flash and audible alarm will sound until the pendant is brought back into range of the Surface Power Unit. The audible alarm can be silenced by pressing the Alarm Mute

key but the LED will continue to flash until the Pendant controller is brought back into range.

#### Thermal Protection

If the temperature inside the SPU rises to 50C +/-10C the blower function will be interrupted and the power indicator will blink. The three (3) Low Air Loss level indicators on the pendant controller will also blink simultaneously to indicate this condition.

## OTHER FEATURES

#### Cease Operation Of Low Air Loss Therapy

The Low Air Loss therapy function of the mattress can be temporarily interrupted by adjusting the Low Air Loss therapy setting on the remote to OFF (no LED's illuminated) or disabled by disconnecting the AC power cord from the power source.

#### Transport

To transport the patient in bed on the mattress system, unplug the power unit from the wall power outlet. The internal foam support structure will provide support for the patient.

#### Power Fail

In case of an extended power failure, the mattress system should be disconnected from the wall power outlet to avoid a trip hazard.

#### Pendant Deep Sleep

If power is removed from the Surface Power Unit for storage or during a power failure, or if the Pendant Controller is removed from the patient area (Greater than 20ft), the Pendant Controller will enter a “DEEP SLEEP” mode to conserve battery power. When power is restored to the system or the

Pendant Controller is returned to the patient area, the “REMOTE ON” button on the Pendant Controller should be pressed for 5 seconds to wake it for normal use.

## CLEANING

### **⚠ WARNING:**

Unplug the Surface Power Unit from wall power outlet. Failure to do so could result in personal injury or equipment damage.

### **⚠ WARNING:**

Do not expose the unit to excessive moisture that would allow for liquid pooling. Personal injury or equipment damage could occur.

### **⚠ CAUTION:**

Do not use harsh cleansers/detergents, such as scouring pads and heavy-duty grease removers, or solvents, such as acetone. Equipment damage could occur.

Surface Power Unit AND Pendant

Wipe off dust. If necessary, clean the housing exterior with a disinfectant solution or a mild detergent and a damp cloth, then wipe dry. Wipe power cord.

## GENERAL CLEANING

If there is no visible soilage with possible body fluids, we recommend that you clean the mattress system with a mild detergent and warm water. If disinfection is desired, you may use a combination cleanser/disinfectant as explained in “Disinfecting”.

1. Patient care equipment that does not come in contact with mucous membranes or non-contact skin requires only low-level disinfection. Wiping surfaces with a properly prepared detergent/disinfectant carries out low level disinfecting.
2. Processing of dirty patient care equipment should take place in a designated area away from clean or sterile supplies and food preparation areas.
3. Detergent/disinfectants should not be mixed with other germicides or detergents. Using the proper dilution insures the most effective killing power of the disinfectant.
4. Wash hands often and well, including after removal of gloves, paying particular attention to around and under fingernails and between fingers.
5. Patient care equipment that is used in isolation areas should be disinfected in accordance with all internal policies and procedures regarding such equipment.

## DISINFECTION

When there is visible soiling and between patients, we recommend that you disinfect the mattress with a tuberculocidal disinfectant. Disinfectant should be registered with the Environmental Protection Agency (EPA).

1. Use rubber gloves and eye protection.
2. Prepare detergent/disinfectant (reg. by EPA as hospital disinfectant) solution according to instructions on label for correct use-dilution. A basin or spray bottle (with properly completed hazardous warning label) can be used. Use a pump to dispense concentrate and fill receptacle with tap water. If using a spray bottle, empty and rinse out spray bottle at end of each day. A fresh preparation of detergent/disinfectant must be prepared daily since the stability of the solution at greater than 24 hours is unknown.
3. With support surface deflated, thoroughly wipe down entire mattress, as air cells will lie flat. Be sure to reach all areas underneath and in-between air cells. Allow to air dry.
4. If dust or other soiling has accumulated along air hoses, remove using swabs moistened with detergent/disinfectant as necessary. Allow all components to air dry. Wrap mattress in plastic and return to storage area.
5. Thoroughly wipe down outside of Surface Power Unit and Pendant and allow to air dry. Cover with plastic and return to storage area
6. Remove gloves and dispose; wash hands.

## STEAM CLEANING

Do not use any steam cleaning device on the mattress. Excessive moisture can damage mechanisms in this mattress

## MAINTENANCE

### **WARNING:**

Only facility-authorized personnel trained by FXI should perform preventative maintenance. Preventative maintenance performed by unauthorized personnel could result in personal injury or equipment damage.

## STORAGE AND CARE

### **Surface Power Unit AND Pendant:**

The power cord may be wrapped around the unit for convenience. Remove the batteries from the pendant if the unit will be stored for a prolonged period. Wrap the unit in a plastic bag for dust resistance then store the unit in an area appropriate for an electronic medical device.

### **SUPPORT SURFACE:**

- Thoroughly wipe down outside of the support surface and allow to air dry.
- Cover with plastic and return to storage area – It is recommended not to fold the mattress and to avoid storage of the mattress other than in a flat format.

## CALL FOR ASSISTANCE

If you have any questions or require service on a product. Please call FXI at 800-355-3626