

# PositionPRO® Patient Repositioning Support Surface

Standalone with pendant or integrated with FL27 InTouch® CC  
Model Beds

**REF** 2920

# stryker®



















## Operations Manual










# Symbols

	Operating instructions/Consult instructions for use
	General warning
	Caution
	Catalogue number
	Serial number
	Manufacturer
	Safe working load
	Alternating current
	Dangerous voltage
	Protective earth ground
<b>IPX4</b>	Protection from liquid splash
	Type B equipment providing a particular degree of protection against electric shock, particularly regarding allowable leakage current and reliability of the protective earth connection.  Class II Per Rule 9- PositionPRO is considered an active therapeutic device intended to be used to administer or withdraw energy to or from the body.
	Medical Equipment Recognized by Underwriters Laboratories LLC With Respect to Electric Shock, Fire, and Mechanical Hazards only in accordance with UL 60601-1: 2003 and CAN/CSA-C22.2 No. 601.1-M90 updates 1 and 2.
	In accordance with European Directive 2012/19/EU on Waste Electrical and Electronic Equipment, this symbol indicates that the product must not be disposed of as unsorted municipal waste, but should be collected separately. Contact your local distributor for disposal information.
	Wash by hand
	Do not dry-clean
	Allow to completely air dry
	Do not tumble dry
	Do not iron

# Symbols

	Chlorinated bleach
	For US Patents see <a href="http://www.stryker.com/patents">www.stryker.com/patents</a>
	Do not stack more than 1 high

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# Warning/Caution/Note Definition

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The words **WARNING**, **CAUTION**, and **NOTE** carry special meanings and should be carefully reviewed.

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## **WARNING**

Alerts the reader about a situation which, if not avoided, could result in death or serious injury. It may also describe potential serious adverse reactions and safety hazards.

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## **CAUTION**

Alerts the reader of a potentially hazardous situation which, if not avoided, may result in minor or moderate injury to the user or patient or damage to the product or other property. This includes special care necessary for the safe and effective use of the device and the care necessary to avoid damage to a device that may occur as a result of use or misuse.

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**Note:** Provides special information to make maintenance easier or important instructions clearer.

## Summary of safety precautions

Carefully read and strictly follow the warnings and cautions listed on this page. Service only by qualified personnel.

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## **WARNING**

- Always make sure that the operator has access to the CPR straps.
  - Do not stick needles into a support surface through the support surface cover. Holes may allow body fluids to enter the inside (inner core) of the support surface and could cause cross-contamination, product damage, or product malfunction.
  - Do not use fitted sheets with this support surface.
  - Always center the patient on the support surface before starting functions. Check the patient frequently for proper positioning and to make sure that the support surface maintains proper inflation.
  - Always make sure that the tubing and wiring that is connected to the patient is long enough, stabilized, and secure during Lateral Rotation or Turn Assist.
  - Do not extubate or intubate patients during Lateral Rotation or Turn Assist. The rotation functions could interfere with the performance of the ancillary devices.
  - Always secure the support surface anchoring straps to the bed frame.
  - Always raise the bed siderails before starting Turn Assist.
  - Do not leave the patient unattended during Turn Assist.
  - Do not exceed the safe working load of the bed frame when supporting both the patient and the support surface. Excess weight could cause unpredictable safety and performance of this product.
  - Always deflate the support surface before beginning CPR.
  - Do not arm bed exit with Lateral Rotation or Turn Assist active. The patient motion and position that results from the support surface may adversely affect bed exit system performance.
  - Do not use dynamic mattress systems for stroke victims without a physician's order.
  - Do not turn a patient with unstable fractures, unstable spinal cord injuries, or those in skeletal traction.
  - Always monitor the patient condition at regular intervals for patient safety.
  - Do not immerse support surface or foot box in cleaning or disinfectant solutions. To avoid the risk of product damage or patient injury.
  - Do not allow fluid to pool on the support surface or foot box. Fluids can cause degradation of components and may cause unpredictable safety and performance of this product.
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# Warning/Caution/Note Definition

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## Summary of safety precautions (Continued)

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### WARNING (CONTINUED)

- Always inspect support surface covers (top and bottom) for tears, punctures, excessive wear, and misaligned zippers each time the covers are cleaned. If compromised, the support surface cover should be removed from service immediately and replaced to prevent cross-contamination.
  - Always perform preventative maintenance more frequently based on the usage level of the product. The life of the support surface can be adversely affected by an increase in usage which may include more frequent cleaning and disinfection.
  - Always allow the control box to completely dry before you place the support surface on top of it.
  - Always disinfect the support surface between patients, to avoid the risk of cross-contamination and infection.
  - Always make sure that you wipe each product with clean water and thoroughly dry each product after cleaning. Some cleaning agents are corrosive in nature and may cause damage to the product if you use them improperly. If you do not properly rinse and dry the product, a corrosive residue may be left on the surface of the product that could cause premature degradation of critical components. Failure to follow these cleaning instructions may void your warranty.
  - Always unplug the product power cord before cleaning or disinfecting to avoid the risk of shock.
- 



### CAUTION

- Improper usage of the product can cause injury to the patient or operator. Operate the product only as described in this manual.
  - Do not modify the product or any components of the product. Modifying the product can cause unpredictable operation resulting in injury to patient or operator. Modifying the product also voids its warranty.
  - Always lower the foot end section gently to avoid the risk of damage to the control box.
  - Do not allow sharp objects to come into contact with the support surface that could puncture tear or cut the cover.
  - Always secure all patient lines and tubing together before starting Turn Assist to prevent pulling, removal, or breakage.
  - Do not iron, dry-clean, or tumble dry the support surface covers.
  - Do not power wash the support surface as this may cause malfunction and damage the product.
  - Always make sure that the support surface cover is completely dry before storing, adding linens or placing a patient on the surface. Drying the product aids in preventing the performance of the product from being impaired.
  - Do not over expose the covers to higher concentration disinfectant solutions as these may degrade the covers.
  - Do not use accelerated hydrogen peroxides or quaternaries that contain glycol ethers as they may damage the cover.
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# Introduction

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This manual assists you with the operation or maintenance of your Stryker product. Read this manual before operating or maintaining this product. Set methods and procedures to educate and train your staff on the safe operation or maintenance of this product.

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## CAUTION

- Improper usage of the product can cause injury to the patient or operator. Operate the product only as described in this manual.
  - Do not modify the product or any components of the product. Modifying the product can cause unpredictable operation resulting in injury to patient or operator. Modifying the product also voids its warranty.
- 

## Notes

- This manual is a permanent part of the product and should remain with the product even if the product is sold.
- Stryker continually seeks advancements in product design and quality. This manual contains the most current product information available at the time of printing. There may be minor discrepancies between your product and this manual. If you have any questions, contact Stryker Customer Service or Technical Support at 1-800-327-0770.

## Product description

**PositionPRO®** is a powered pressure relief support surface with low air loss (LAL) intended for medical purposes. **PositionPRO** consists of multiple air cells filled and emptied by an integrated control unit to provide changes in the distribution of body weight for pressure relief. **PositionPRO** offers turn assist. See the specifications page for compatible frames.

## Indications for use

**PositionPRO** is intended to assist in the prevention and treatment of pressure injuries (including stages 1,2,3,4, unstageable injury, and deep tissue injury) that are associated with immobile, critically ill, injured or hospitalized human patients.

Use **PositionPRO** with a mattress cover at all times. The support surface is intended to support a patient's full body. **PositionPRO** is for patient use in acute care settings, which includes critical care, step down, progressive care, med/surg, sub acute care, and post anesthesia care unit (PACU). The patient is under the care of a physician. The typical operator is a healthcare professional. **PositionPRO** is not suitable for use in the presence of a flammable anesthetic mixture with air or with oxygen or nitrous oxide.

**PositionPRO** is not intended to:

- support a patient in a prone position
- be used in a home health position
- be used as a sterile product
- include a measuring function

**PositionPRO** is not recommended for patients with the following conditions:

- unstable fractures
- skeletal traction
- agitated patients
- severe hemoptysis
- for whom a head-down position is contraindicated, such as a head injury
- bleeding disorders
- rib fractures / fractures
- predisposed to pathological fractures

# Introduction

## Indications for use (Continued)

- for whom the techniques increased dyspnea or wheezing
- who are hemodynamically unstable


## Expected service life

**PositionPRO** has a five year expected service life under normal use, conditions, and with appropriate periodic maintenance.

## Contraindications

Patients with spinal cord injuries

## Specifications

Model	Pendant 2920-100-000	DH29201005 with Dartex Cover	
		DH29201015 with Nylon Cover	
	Integrated 2920-500-000	DH29201010 with Dartex Cover	
		DH29201020 with Nylon Cover	
Dimensions	Mattress	35" x 84" x 7"	88.9 cm x 213.4 cm x 17.8 cm
Weight	Complete system	63 lb	28.6 kg
	Mattress	29 lb	13.1 kg
	Pendant	1 lb	0.45 kg
	Pump Box	33 lb	15 kg
 Safe working load	Stationary	500 lb	226.8 kg
	Default 22 mmHg, optimal pressure relief	200 lb	90.7 kg
	Turn Assist	300 lb	136.1 kg
Power cord	15 foot, 16 AWG cord with hospital grade plug for use with wall outlet 4 foot, 16 AWG cord with hospital grade plug for use with accessory outlet		
Over current protection	2 fuses 5 x 20 mm, 5 AMP Slo-Blo, 250 VAC 120VAC; 50-60Hz, 1AMP; Two 250V, 5A Fuses		
Output flow rate	12.5 LPM (0.4 SCFM) minimum @ 30mmHg		
Current leakage	300 uA Maximum		
Classification	Class 1 Grounded Equipment		
	Class 2, FDA and Health Canada		
	Continuous operation- Not suitable for use in the presence of flammable anesthetic mixture with air or with oxygen or nitrous oxide. Suitable for continuous duty.		
	Medical equipment: Classified with respect to electric shock, mechanical hazards only, in accordance with UL60601-1 CAN/CSA C22.2 No. 601.1.-M90.		
	Electromagnetic compatibility, meets EN 60601-1-2, 2001 (CISPR II classified as Class A, Group 1 ISM equipment)		

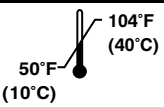
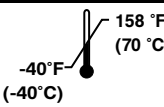


# Introduction

## Specifications (Continued)

Flammability standards	USA 16 CFR 1632, USA 16 CFR 1633, CALTB 129, Boston BFD IX-11 Method 27.7-1979 of CAN 2-4.2 M77	
Compatible frames	84" x 35" flat deck frames	GoBed II®, Secure 3®, InTouch®, and Epic II®

Stryker reserves the right to change specifications without notice.

Environmental conditions	Operation	Storage and transportation
Temperature	 50°F (10°C) to 104°F (40°C)	 -40°F (-40°C) to 158°F (70°C)

## Contact information

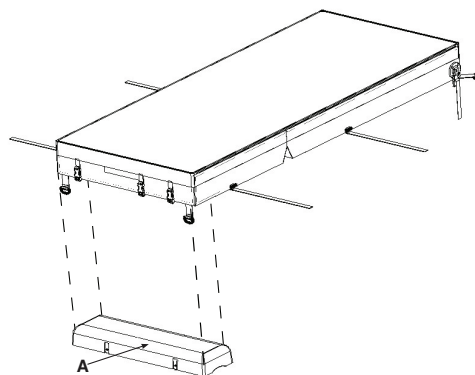
Contact Stryker Customer Service or Technical Support at: 1-800-327-0770.

Stryker Medical  
3800 E. Centre Avenue  
Portage, MI 49002  
USA

To view your operations or maintenance manual online, see <https://techweb.stryker.com/>.

Have the serial number (A) of your Stryker product available when calling Stryker Customer Service or Technical Support. Include the serial number in all written communication.

## Serial number location



# Introduction

## Product illustration

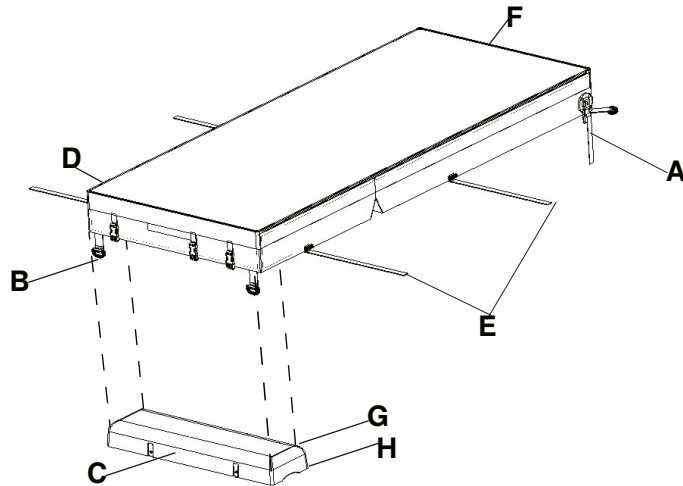


Figure 1: Product illustration

A	CPR straps	E	Handles
B	D rings	F	Head end
C	Foot box	G	Integration cable
D	Foot end	H	Power cord

## Date of manufacture

The year of manufacture is the first four digits of the serial number.

# Installation

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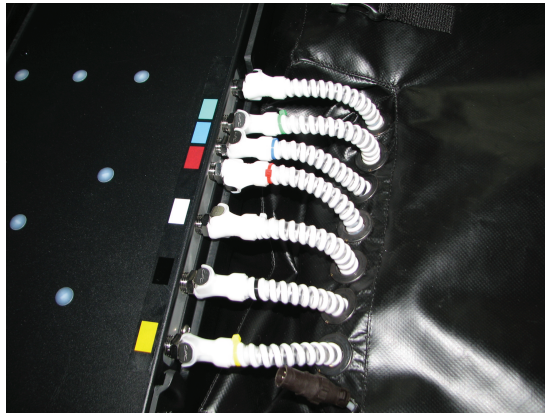
This section explains how to install the support surface and the control box. The support surface is either equipped with a standalone pendant control option or integrated with **InTouch FL27 Critical Care Bed** option. The differences are noted in the appropriate installation steps.

1. Position the support surface onto the bed.
2. Flip the foot section toward the head end.
3. Turn the control box upside down and place the control box into the opening in the foot section of the support surface ([Figure 2 on page 9](#)).



**Figure 2: Insert the foot box**

4. Match the outer transparent tubes colors to the manifold colors and connect them ([Figure 3 on page 9](#)) (Green, Blue, Red, White, Black Yellow).



**Figure 3: Connect tubes by color**

5. Connect the tilt sensor cables.
  - a. Align the white dots on the tilt sensor cable connectors.
  - b. Twist the tilt sensor cables clockwise to fasten ([Figure 4 on page 10](#)).

# Installation

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**Figure 4: Connect the tilt sensor cables**

6. Connect the pendant cable ([Figure 5 on page 10](#)).

**Note:** The pendant cable for the InTouch FL27 bed is QDF27-1534.



**Figure 5: Connect the pendant cable**

7. Connect the power cord (4 in. or 15 in.) and turn the switch to the ON or 1 position.  
**Note:** The switch is under the power cord.
8. Fasten the straps over the power cord.
9. Install the power cord in the two retaining clips ([Figure 6 on page 10](#)).



**Figure 6: Retaining clips**

10. Fasten the three retaining straps.

# Installation

11. Carefully rotate the foot end control box and support surface into the flat position ([Figure 7 on page 11](#)).



## CAUTION

Always lower the foot end section gently to avoid the risk of damage to the control box.



Figure 7: Installation complete and ready to flip

12. Fasten all four of the retaining straps to secure the support surface to the bed frame ([Installation on page 9](#)[Figure 9 on page 11](#)).

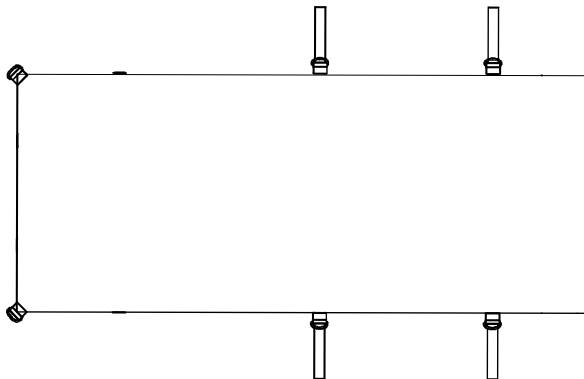


Figure 8: Strap locations



Figure 9: Fasten the retaining straps

13. Install the clip for the pendant standalone optional control in one of the two locations listed below ([Figure 10 on page 11](#)) and ([Figure 11 on page 12](#)).

- a. Siderails



Figure 10: Pendant on siderails

- b. Footboard

# Installation

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**Figure 11: Pendant on footboard**

**Note:** Always plug the hospital grade three-prong plug into a properly grounded receptacle to protect against shock hazard. Grounding reliability can be achieved only when a hospital grade receptacle is used.

14. Connect the power cord to the power source.
15. Calibrate the bed following the procedures in the InTouch maintenance manual.

# Operation

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## Applying the linens

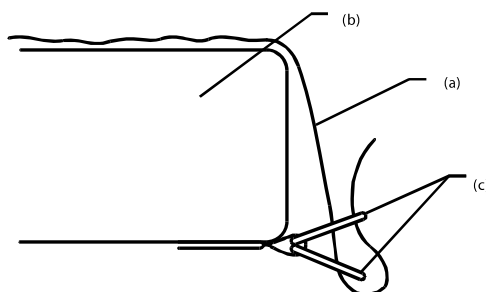
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### WARNING

- Always make sure that the operator has access to the CPR straps.
  - Do not stick needles into a support surface through the support surface cover. Holes may allow body fluids to enter the inside (inner core) of the support surface and could cause cross-contamination, product damage, or product malfunction.
  - Do not use fitted sheets with this support surface.
- 

To apply the linens:

1. Apply the linens using the “D” rings for the flat sheet.
2. Thread the four linen corners through the “D” rings (c) attached to the support that are surface to secure the linens (a) to the mattress (b).



**Figure 12: Apply linens**

**Note:** Do not pull the linens tight. Keep the linens loose and as smooth as possible on top of the support surface to effectively use the Turn Assist and Lateral Rotation functions.

## Positioning the patient

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### WARNING

- Always center the patient on the support surface before starting functions. Check the patient frequently for proper positioning and to make sure that the support surface maintains proper inflation.
  - Always make sure that the tubing and wiring that is connected to the patient is long enough, stabilized, and secure during Lateral Rotation or Turn Assist.
  - Do not extubate or intubate patients during Lateral Rotation or Turn Assist. The rotation functions could interfere with the performance of the ancillary devices.
  - Always secure the support surface anchoring straps to the bed frame.
  - Always raise the bed siderails before starting Turn Assist.
  - Do not leave the patient unattended during Turn Assist.
  - Do not exceed the safe working load of the bed frame when supporting both the patient and the support surface. Excess weight could cause unpredictable safety and performance of this product.
  - Always deflate the support surface before beginning CPR.
-

# Operation

## Positioning the patient (Continued)

### CAUTION

- Do not allow sharp objects to come into contact with the support surface that could puncture tear or cut the cover.

To position the patient:

- Place the patient in the center of the support surface, aligning the patient's head toward the head board.
- Check the patient frequently during Turn Assist and Lateral Rotation for proper positioning and support surface inflation.



## Activating CPR

When CPR is activated, the manifold bladder deflates, the pump is off and all of the valves are energized. CPR activation is detected by a fast drop of pressure in a short period of time.

### WARNING

Always make sure that the operator has access to the CPR straps.

Pull the red CPR strap ([Figure 13 on page 14](#)) that is located on the left and right side of the head end of the mattress. You can activate one or either of the straps.

**Note:** The CPR visual alarm LED turns red. The CPR alarm LED continues to flash to indicate that a hazardous situation has been detected. The CPR alarm LED will continue to flash until you reset the alarm.



Figure 13: CPR Strap

## Resetting CPR with the optional pendant control

When you activate the CPR, the pendant CPR LED starts flashing red without an audible alert.

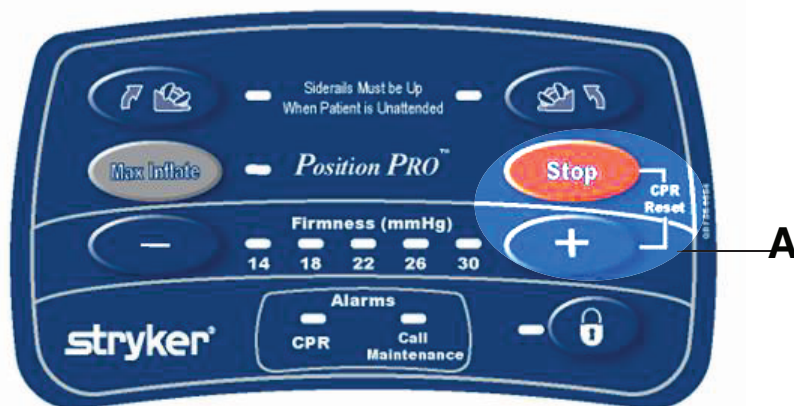
To reset the CPR:

- Reinsert the red CPR straps by pulling down on the strap.
- Press the **Stop** button and the Increase Firmness (+) button simultaneously to reset the CPR alarm. The support surface will begin to reinflate.



# Operation

## Resetting CPR with the optional pendant control (Continued)



Button	Name	Function
A	Stop and Firmness Increase (+)	Press both buttons at the same time to reset the CPR.

## Starting and stopping max inflate with the optional pendant control

To start Max Inflate:

Press the **Max Inflate** button to inflate the air bladders to the maximum level to aid in patient boosts and patient transfers.

To stop Max Inflate:

Press the **Max Inflate** button to stop inflation.

**Note:** If Max Inflate has been on longer than 30 minutes, the alarm will sound, and the support surface will return to the default firmness setting.

## Locking and unlocking the optional pendant control

To Lock:

Press the **Lock** button to prevent options from being selected on the pendant after you have activated the functions.

To Unlock:

Press the **Unlock** button to allow the selection of options.

**Note:** When selected, the lock icon LED illuminates red.

# Operation

## Locking and unlocking the optional pendant control (Continued)



Button	Name	Function
A	Max Inflate	Inflates the support surface to maximum pressure (60 mmHg)
B	Stop	Press once to return to previous firmness setting
C	Lock Out / Unlock	Press to lock all pendant functions Press again to unlock all pendant functions.

## Adjusting firmness with the optional pendant control

You can adjust the support surface firmness settings for patient comfort. The product has five levels of firmness settings that range from 14 mmHg to 30 mmHg. The default of 22 mmHg provides optimal pressure relief for patients up to 200 lb. For average sized patients, 18-22mmHg is recommended.

### Notes

- For larger patients, higher settings are recommended.
- The increase firmness (+) and decrease firmness (-) buttons are inactive when Turn Assist or Max Inflate is active.

# Operation

## Adjusting firmness with the optional pendant control (Continued)



Button	Name	Function
A	Increase Firmness (+)	Increases the firmness level of the support surface
B	Decrease Firmness (-)	Decreases the firmness level of the support surface

## Starting and stopping turn assist with the optional pendant control

### WARNING

- Do not arm bed exit with Lateral Rotation or Turn Assist active. The patient motion and position that results from the support surface may adversely affect bed exit system performance.
- Always raise the bed siderails before starting Turn Assist, to avoid the risk of patient fall.
- Do not use dynamic mattress systems for stroke victims without a physician's order.
- Do not turn a patient with unstable fractures, unstable spinal cord injuries, or those in skeletal traction.
- Do not extubate or intubate patients during Lateral Rotation or Turn Assist. The rotation functions could cause interference with the performance of the ancillary devices.
- Do not leave the patient unattended during Turn Assist.

### CAUTION

Always secure all patient lines and tubing together before starting Turn Assist to prevent pulling, removal, or breakage.

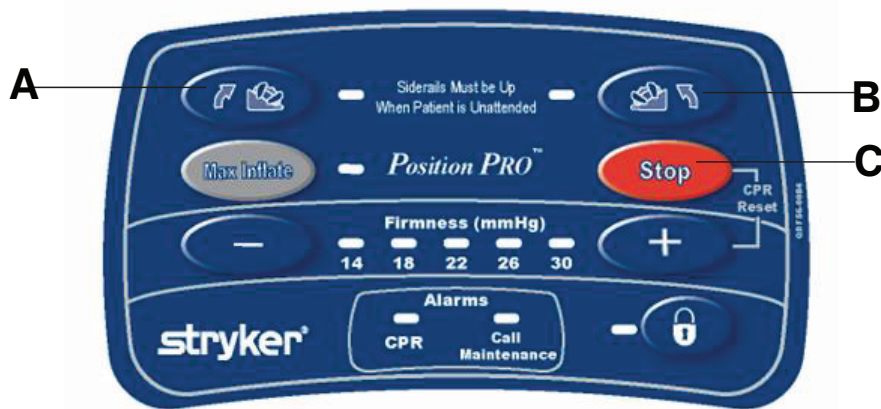
To prepare for Turn Assist:

1. Secure the patient lines, tubing, and power cords.
2. Center the patient on the support surface.

# Operation

## Starting and stopping turn assist with the optional pendant control (Continued)

3. Raise all the siderails on the bed.



Button	Name	Function
A	Turn Assist Left	Assists in turning the patient to the left
B	Turn Assist Right	Assists in turning the patient to the right
C	Stop Turn Assist	<ul style="list-style-type: none"> <li>Press the <b>Stop</b> button after to pause Turn Assist in any position.</li> <li>Press the <b>Stop</b> button twice to deactivate Turn Assist in any position.</li> <li>Press the Turn Assist Left button or the Turn Assist Right button to continue.</li> </ul>

### Notes

- **PositionPRO** can turn a 300 lb patient up to 40°.
- You can use the Turn Assist therapy with a timer so therapy can last up to 120 minutes without the need to calculate the time the patient has been receiving this therapy.
- When patient is unattended, the warning illuminates when you activate the Left or Right Turn Assist function and you have not raised the siderails.
- Right and left locations are from the perspective of the patient.
- Turn Assist Right or Left LEDs illuminate green when activated and remain illuminated after the function is complete.
- Turn Assist Right and Left LEDs blink when in process.
- Turn Assist will hold in a turned position for 2 hours if the **Stop** button is not pressed twice; after 2 hours have passed, the support surface will return to flat.

# Operation

## Alarming call maintenance with the optional pendant control

The alarm conditions Call Maintenance LED illuminates red and flashes to indicate when a hazardous situation has been detected. Review the Error Alarms section and call appropriate technical support personnel.

## Resetting CPR with the optional InTouch footboard

To reset CPR:

Reinsert the red CPR straps by pulling down on the strap.



Button	Name	Function
A	Reset CPR	Tap to reset the CPR alarm

## Starting and stopping max inflate with the optional InTouch footboard

To start Max Inflate:

Tap **Max Inflate** to inflate the air bladders to the maximum level to aid in patient boosts and patient transfers.

To stop Max Inflate:

Tap **Max Inflate** to stop the inflation.

### Note:

If Max Inflate has been on longer than 30 minutes, the alarm will sound, and the support surface will return to the default firmness setting.

## Locking and unlocking with the optional InTouch footboard

To Lock:

Tap **Lock** to prevent options from being selected on the InTouch footboard after you have activated the functions.

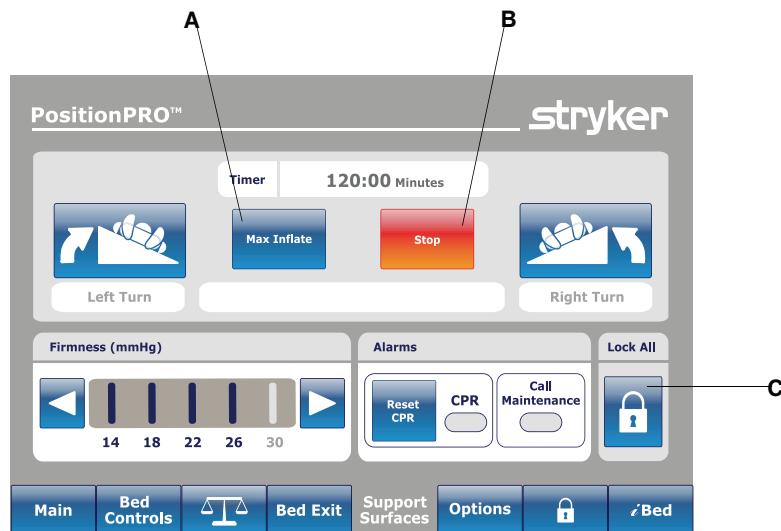
To Unlock:

Tap **Unlock** to allow the selection of options.

**Note:** When selected, the lock icon LED illuminates red.

# Operation

## Locking and unlocking with the optional InTouch footboard (Continued)



Button	Name	Function
A	Max Inflate	Tap to inflate the support surface to maximum pressure (60 mmHg).
B	Stop	Tap once to return to previous firmness setting.
C	Lock Out / Unlock	Tap to lock all pendant functions. Tap again to unlock all pendant functions.

## Adjusting firmness with the optional InTouch footboard

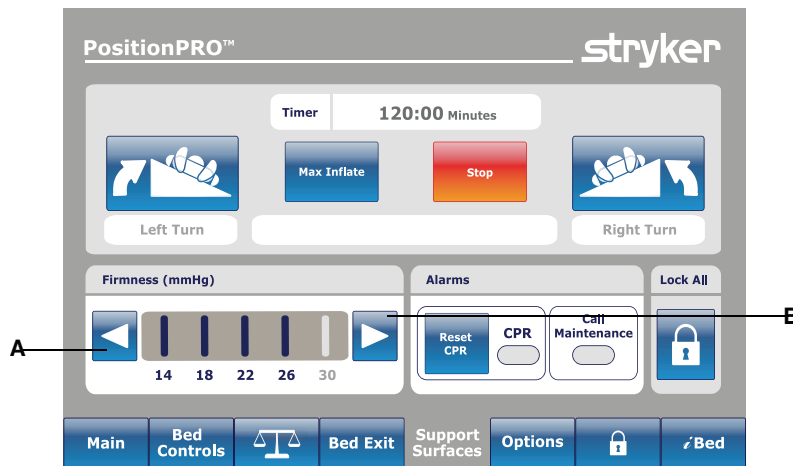
The support surface firmness settings may be adjusted for patient comfort requirements. The product has five levels of firmness settings that range from 14 mmHg to 30 mmHg. The default of 22 mmHg will provide optimal pressure relief for patients up to 200 lb. For average sized patients, 18-22mmHg is recommended.

### Notes

- For larger patients, higher settings are recommended.
- Firmness increase and decrease are inactive when Turn Assist and Max Inflate are active.

# Operation

## Adjusting firmness with the optional InTouch footboard (Continued)



Button	Name	Function
A	Firmness Increase	Increases the firmness level of the support surface
B	Firmness Decrease	Decreases the firmness level of the support surface

## Starting and stopping turn assist with the optional InTouch footboard

### WARNING

- Always raise the bed siderails before beginning Turn Assist, to avoid the risk of patient fall.
- Do not use dynamic mattress systems for stroke victims without a physician's order.
- Do not turn a patient with unstable fractures, unstable spinal cord injuries, or those in skeletal traction.
- Do not extubate or intubate patients during Lateral Rotation or Turn Assist. The rotation functions could cause interference with the performance of the ancillary devices.
- Do not leave the patient unattended during Turn Assist.

### CAUTION

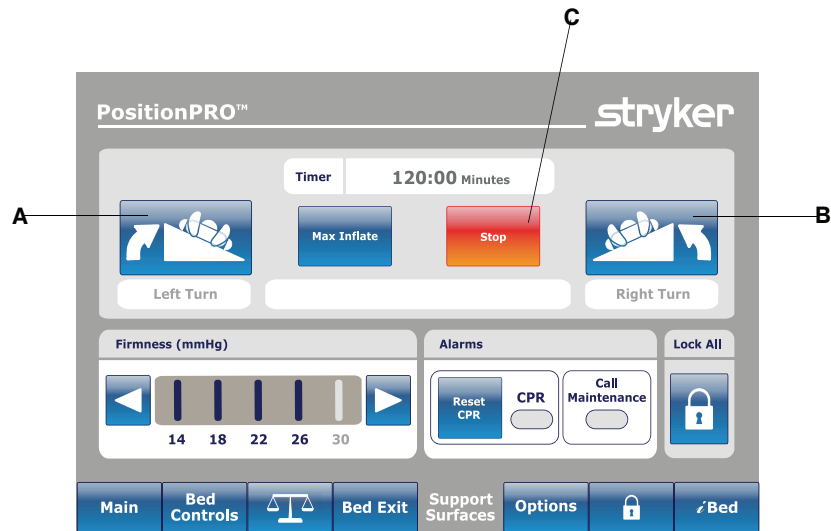
Always secure all patient lines and tubing together before starting Turn Assist to prevent pulling, removal, or breakage.

To prepare for Turn Assist:

1. Secure the patient lines, tubing, and power cords.
2. Center the patient on the support surface.
3. Raise all the siderails on the bed.
4. Tap either the **Turn Assist Left** or the **Turn Assist Right**.

# Operation

## Starting and stopping turn assist with the optional InTouch footboard (Continued)



Button	Name	Function
A	Turn Assist Left	Opens the left turn assist window
B	Turn Assist Right	Opens the right turn assist window
C	Stop	Stop Turn Assist

5. Tap **Increase(+)** or **Decrease (-)** to increase or decrease the turn time.
6. Tap **Start** button to start turn assist.
7. Tap **Back** button to access the Stop button.

### Notes

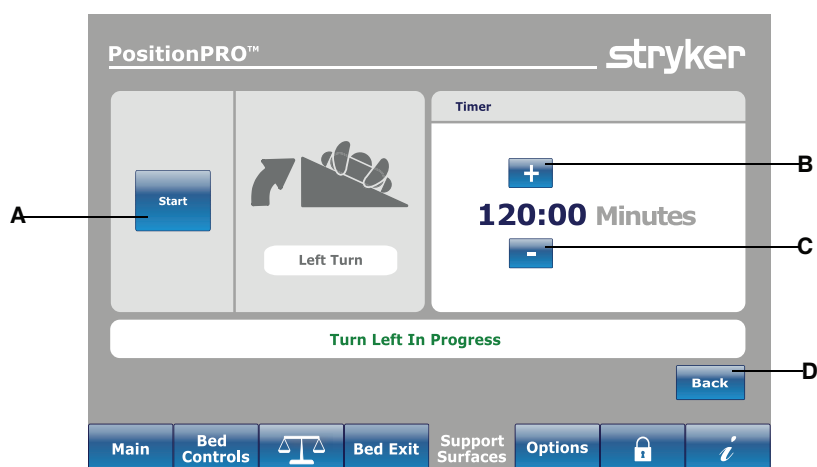
- **PositionPRO** can turn a 300 lb patient up to 40°.
- Right and left locations are from the perspective of the patient.

If you do not tap **Continue Turn**, Turn Assist will hold in a turned position for 2 hours, after 2 hours have passed the support surface will return to flat.



# Operation

## Starting and stopping turn assist with the optional InTouch footboard (Continued)



Button	Name	Function
A	Start	Starts Turn Assist and switches to Hold
A	Hold (Not Shown)	Pauses Turn Assist and switches to Continue Turn
A	Continue Turn (Not Shown)	Continues Turn Assist and switches to Hold
B	Increase Time	Increases the timer up to a maximum of 120:00 minutes
C	Decrease Time	Decreases the timer
D	Back	Returns to the Support Surfaces main screen to access the Stop button to deactivate the Turn Assist

## Alarming call maintenance with the optional InTouch footboard

The alarm conditions Call Maintenance LED illuminates red and flashes to indicate a hazardous situation has been detected. Review the Error Alarms section and call appropriate technical support personnel.

## Transferring a patient to and from the support surface

To transfer a Patient:

1. Lock the brakes on both of the platforms that the patient is being transferred to and from (beds or stretchers).
2. Position the patient along the center line of the support surface.
3. Press the **Max Inflate** button until the support surface has reached maximum inflation.
4. Adjust the height of both platforms to the same level.
5. Transfer the patient following all applicable safety rules and institution protocols for patient and operator safety.
6. Press the **Stop** button to turn off Max Inflate.

## Transporting a patient

**Note:** Do not use Turn Assist while transporting a patient.

To transporting a patient:

1. Unplug the support surface power cord and the bed power cord from the power source.
2. Stow the power cords to avoid the risk of entanglement during transport.
3. Raise and lock the siderails.
4. Transport the patient following all applicable safety rules and institution protocols to for patient and operator safety.
5. Plug the support surface power cord and the bed power cord into properly grounded, hospital grade power outlets when you have reached the patient destination.

**Note:** The support surface will maintain air pressure for up to four hours while unplugged.

## Managing incontinence and drainage

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### **WARNING**

Always monitor the patient condition at regular intervals for patient safety.

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You can use disposable diapers or incontinence pads to manage incontinence. Always provide appropriate skin care after each incontinence episode.

# Cleaning

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## **WARNING**

- Always unplug the support surface power cord before cleaning or disinfecting to avoid the risk of shock.
  - Do not immerse support surface or foot box in cleaning or disinfectant solutions. To avoid the risk of product damage or patient injury.
  - Do not allow fluid to pool on the support surface or foot box. Fluids can cause degradation of components and may cause unpredictable safety and performance of this product.
  - Always inspect support surface covers (top and bottom) for tears, punctures, excessive wear, and misaligned zippers each time the covers are cleaned. If compromised, the support surface cover should be removed from service immediately and replaced to prevent cross-contamination.
  - Always perform preventative maintenance more frequently based on the usage level of the product. The life of the support surface can be adversely affected by an increase in usage which may include more frequent cleaning and disinfection.
- 

## **CAUTION**

- Do not iron, dry-clean, or tumble dry the support surface covers.
  - Do not power wash the support surface as this may cause malfunction and damage the product.
  - Always make sure that the support surface cover is completely dry before storing, adding linens or placing a patient on the surface. Drying the product aids in preventing the performance of the product from being impaired.
- 

Always follow hospital protocol for cleaning and disinfecting.

**To clean the support surface covers between patient uses, follow these steps in order:**

1. Unplug the support surface before cleaning.
2. Lift up the foot section of the support surface to clean the bottom surface.
3. Using a clean, soft, damp cloth, wipe the support surface covers with a mild soap and water solution to remove foreign material.
4. Wipe the support surface covers with a clean, dry cloth to remove any excess liquid or cleaning agent.

## Cleaning the control box

### **WARNING**

Always allow the control box to completely dry before you place the support surface on top of it.

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To clean the control box:

1. Unplug the support surface before cleaning.
2. Using a clean, soft, damp cloth, wipe the control box with a mild soap and water solution.
3. Wipe the control box with a clean, dry cloth to remove any excess liquid or cleaning agents.
4. Thoroughly rinse and dry the control box after cleaning.
5. Disinfect the control box with a hospital grade disinfectant as necessary.

## Cleaning the pendant

1. Unplug the pendant before cleaning.
2. Using a clean, soft, damp cloth, wipe down the pendant using a mild soap and water solution to remove foreign materials.
3. Wipe down the pendant with a clean, dry cloth to remove any excess liquid or cleaning agents.

# Cleaning

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## Cleaning the pendant (Continued)

4. Care must be taken to thoroughly rinse and dry the pendant following cleaning.
5. Disinfect as necessary with a hospital grade disinfectant after cleaning has been completed.

# Disinfecting

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## WARNING

- Always disinfect the support surface between patients, to avoid the risk of cross-contamination and infection.
  - Always make sure that you wipe each product with clean water and thoroughly dry each product after cleaning. Some cleaning agents are corrosive in nature and may cause damage to the product if you use them improperly. If you do not properly rinse and dry the product, a corrosive residue may be left on the surface of the product that could cause premature degradation of critical components. Failure to follow these cleaning instructions may void your warranty.
  - Do not allow fluid to pool on the support surface or foot box. Fluids may cause degradation of components and may cause unpredictable safety and performance of this product.
  - Always unplug the product power cord before cleaning or disinfecting to avoid the risk of shock.
- 



## CAUTION

- Always completely dry the support surface covers before storing, adding linens, or placing a patient on the surface. Failure to remove excess disinfectant may degrade the cover material.
  - Do not over expose the covers to higher concentration disinfectant solutions as these may degrade the covers.
  - Do not use accelerated hydrogen peroxides or quaternaries that contain glycol ethers as they may damage the cover.
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Prerequisite: Minimum of two operators are required to disinfect the support surface.

Suggested Disinfectants:

- Quaternaries
- Phenolic Disinfectants
- Chlorinated Bleach Solution (5.25% sodium hypochlorite at 1:100 dilution)
- 70% Isopropyl Alcohol

To disinfect the support surface covers after each patient use, follow these steps in order:

1. Unplug the support surface.
2. Thoroughly clean and dry the support surface covers (see [Cleaning on page 25](#)) before disinfectants are applied.
3. Apply recommended disinfectant solution by spray or pre-soaked wipes (do not soak the support surface).  
**Note:** Make sure that you follow the disinfectant's instructions for appropriate contact time and rinsing requirements.
4. Wipe the support surface covers with a clean, dry cloth to remove any excess liquid or disinfectant.
5. Allow the support surface covers to dry completely before returning to service. Air dry, if possible.

# Preventive maintenance

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At a minimum, check all items listed during annual preventive maintenance for all Stryker Medical products. You may need to perform preventive maintenance checks more frequently based on your level of product usage.

**Note:** Clean and disinfect the exterior of the support surface before inspection, if applicable.

Inspect the following items:

- \_\_\_\_\_ Zipper and covers are free of tears, cuts, holes or other openings
- \_\_\_\_\_ Fully unzip the cover to inspect the inside surface and core for signs of staining due to fluid ingress or contamination
- \_\_\_\_\_ Pendant controls function properly
- \_\_\_\_\_ Max Inflate functions properly
- \_\_\_\_\_ Turn Assist functions properly
- \_\_\_\_\_ Left and Right CPR releases function properly
- \_\_\_\_\_ All electrical connections function properly
- \_\_\_\_\_ Power cord and plug are free of damage
- \_\_\_\_\_ Air cells are free of excessive wear, cracks, tears, or other damage
- \_\_\_\_\_ Fire barrier cover for excessive wear
- \_\_\_\_\_ All connectors are free of damage

## Notes

- It is recommended to replace cells every six months.
- Replace worn or damaged components as necessary.

Product Serial Number:	
Completed by:	
Date:	

## Top cover replacement

### Tools Required:

None

### Procedure:

1. Unplug the support surface power cord from the power source.
2. Unzip the support surface top cover and discard.
3. Replace with new top cover and zip all sides.
4. Plug the support surface into a power source.
5. Verify proper operation of the support surface before returning it to service.

## Fire barrier replacement

### Tools Required:

- Diagonal pliers
- Utility knife
- Zip tie gun

### Procedure:

## Fire barrier replacement (Continued)

1. Raise the bed height to the full up position.
2. Lower the fowler and gatch sections to the full down positions.
3. Unplug the support surface from the power source.
4. Unplug one of the CPR plugs to deflate the bladder.
5. Unzip the top cover and fold it off to the side.
6. Pull the fire barrier off starting from the head end pulling down to the foot end, working it from the left to the right while pulling it down.
7. Discard the fire barrier.
8. Starting at the foot end, roll the new fire barrier up and slide the fire barrier over the crib assembly.  
**Note:** Align the fire barrier on the crib before sliding over the crib assembly.
9. Carefully slide the fire barrier up the crib assembly, working from side to side, to make sure that the fire barrier is tight on the crib assembly.
10. Align the crib assembly on top of the bottom part of the cover.  
**Note:** Spread the excess fire barrier material equally below the crib assembly at the head end.
11. Fold and align the top cover over the top of the crib assembly.
12. Zip the cover to close. Start at the head end patient right corner and stop at the foot end patient right corner.
13. Verify proper operation before returning the product to service.

## Quick reference replacement parts

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These parts are currently available for purchase. Call Stryker Customer Service: 1-800-327-0770 for availability and pricing.

Part Name	Part Number
Clip	QDF2082
Pendant	QDF2081
Pump	56-0541
Transformer	56-0047
Manifold Valve Assembly	56-0503
Control Board	56-0280
Top Cover, Dartex, Standalone Mattress	56-0274
Top Cover, Dartex, Integrated Mattress, (with FL27 InTouch Critical Care Bed)	56-0528
Power Cord, 4 foot	QDF8087
Power Cord, 15 foot	QDF8088
Fan	56-0509
Sub Assembly Line Choke	56-0243
Sub Assembly Tilt Sensor	56-0287
Fire barrier	56-0670



# EMC information

Guidance and manufacturer's declaration - Electromagnetic Immunity			
<b>PositionPRO</b> is suitable for use in the electromagnetic environment specified below. The customer or the user of <b>PositionPRO</b> should make sure that it is used in such an environment.			
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment guidance
Electrostatic Discharge (ESD) IEC 61000-4-2	$\pm 6$ kV contact $\pm 8$ kV air	$\pm 6$ kV contact $\pm 8$ 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%.
Electrostatic fast transient/burst IEC 61000-4-4 *	$\pm 2$ kV for power supply lines $\pm 1$ kV for input/ output lines	$\pm 2$ kV for power supply lines $\pm 1$ kV for input/ output lines	Main power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5 *	+8 kV differential mode +2 kV common mode	+8 kV differential mode +2 kV common mode	Main power quality is that of typical commercial and/or hospital environment.
Voltage dips, voltage variations and short interruptions on power supply input lines IEC 61000-4-11 *	<5% $U_T$ (>95% dip in $U_T$ ) for 0.5 cycle 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 sec	<5% $U_T$ (>95% dip in $U_T$ ) for 0.5 cycle 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 sec	Main power quality should be that of a typical commercial and/or hospital environment. If the user of <b>PositionPRO</b> requires continued operation during power main interruptions, it is recommended that the device be powered from an uninterrupted 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 characteristic of a typical location in a typical commercial and/or hospital environment.
<b>Note:</b> $U_T$ is the a.c. mains voltage prior to applications of the test level.			

Recommended separation distances between portable and mobile RF communications equipment and <b>PositionPRO</b> .
<b>PositionPRO</b> is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of <b>PositionPRO</b> can help prevent electromagnetic interferences by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and <b>PositionPRO</b> as recommended below, according to the maximum output power of the communications equipment.

## EMC information

(Continued)


Rated maximum output power of transmitter W	Separation distance according to frequency of transmitter m		
	150 kHz to 80 MHz $d=[3.5/V1]\sqrt{P}$	80 MHz to 800 MHz $d=[3.5/E1]\sqrt{P}$	800 MHz to 2.5 GHz $d=[7/E1]\sqrt{P}$
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 <math>d</math> in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where <math>P</math> is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.</p> <p><b>Note:</b> At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.</p> <p><b>Note:</b> These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.</p>			

**PositionPRO** is suited for use in the electromagnetic environment specified below. The customer or the user of **PositionPRO** should make sure that it is used in such an environment.

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
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# EMC information

(Continued)

<p>Conducted RF IEC 61000-4-6 *</p> <p>Radiated RF IEC 61000-4-3</p>	<p>3 Vrms 150 kHz to 80 MHz</p> <p>3 V/m 80 MHz to 2.5 GHz</p>	<p>3 Vrms</p> <p>3 V/m</p>	<p>Portable and mobile RF communications equipment should be used no closer to any part of <b>PositionPRO</b>, including cables, than the recommended separation distance calculated from the equation appropriate for the frequency of the transmitter.</p> <p>Recommended Separation Distance</p> $d=1.2\sqrt{P}$ $d=1.2\sqrt{P}$ <p>80 MHz to 800 MHz</p> $d=2.3\sqrt{P}$ <p>800 MHz to 2.5 GHz</p> <p>where <math>P</math> is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and <math>d</math> is the recommended separation distance in metres (m).</p> <p>Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey,<sup>a</sup> should be less than the compliance level in each frequency range.<sup>b</sup></p> <p>Interference may occur in the vicinity of equipment marked with the following symbol:</p> 
<p><b>Note:</b> At 80 MHz and 800 MHz, the higher frequency range applies.</p> <p><b>Note:</b> These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.</p> <p><sup>a</sup>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 <b>PositionPRO</b> is used exceeds the applicable RF compliance level above, <b>PositionPRO</b> should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating <b>PositionPRO</b>.</p> <p><sup>b</sup>Over the frequency range 150 kHz to 80 MHz, field strengths are less than 3 V/m.</p>			

## Guidance and manufacturer's declaration - Electromagnetic Emissions

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

## EMC information

(Continued)

Emissions test	Compliance	Electromagnetic environment
RF Emissions CISPR 11	Group 1	<b>PositionPRO</b> uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF Emissions CISPR 11	Class A	<b>PositionPRO</b> is suitable for use in all establishments other than domestic and those directly connected to the public low voltage power supply network that supplies buildings used for domestic purposes.
Harmonic Emissions IEC 61000-3-2	Class A	
Voltage Fluctuations Flicker Emissions IEC 61000-3-3	Complies	

### **WARNING**

This equipment/system is intended for use by health care professionals only. This equipment/system may cause radio interference or may disrupt the operation of nearby equipment. It may be necessary to take mitigation measures, such as reorienting or relocating **PositionPRO** or shielding the location.

# Warranty

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Stryker Medical, a division of Stryker Corporation ("Stryker"), warrants that its Stryker Model 2920 **PositionPRO®** product will be free from defects in material and workmanship for a period of two years after the date of delivery. Stryker's obligation under this warranty is expressly limited to supplying replacement parts and labor for, or replacing at its option, any product which is, in the sole discretion of Stryker, found to be defective. If requested by Stryker, products or parts for which a warranty claim is made shall be returned prepaid to the factory. Any improper use or any alteration or repair by others in such manner as in Stryker's judgement affects the product materially and adversely shall void this warranty. Any repair of Stryker products using parts not provided or authorized by Stryker shall void this warranty. No employee or representative of Stryker is authorized to change this warranty in any way.

Stryker Model 2920, **PositionPRO** product is designed for a five year expected service life under normal use, conditions, and with appropriate periodic maintenance as described in the maintenance manual for each device.

The above noted warranty periods apply only to the original purchaser of the product and begin on the date of delivery to such original purchaser.

## Warranty exclusion and damage limitations

The express warranty set forth herein is the only warranty applicable to the product. **Any and all other warranties, whether express or implied, including any implied warranty of merchantability or fitness for a particular purpose are expressly excluded by Stryker.** In no event shall Stryker be liable for incidental or consequential damages.

## To obtain parts and service

Stryker products are supported by a nationwide network of dedicated Stryker Field Service Representatives. These representatives are factory trained, available locally, and carry a substantial spare parts inventory to minimize repair time. Simply call your local representative or call Stryker Customer Service at 1-800-327-0770.

## Return authorization

Product cannot be returned without prior approval from the Stryker Customer Service Department. An authorization number will be provided which must be printed on the returned product. Stryker reserves the right to charge shipping and restocking fees on returned product. Special, modified, or discontinued products are not subject to return.

## Damaged product

ICC Regulations require that claims for damaged product must be made within fifteen (15) days of receipt of the product. Do not accept damaged shipments unless such damage is noted on the delivery receipt at the time of receipt. Upon prompt notification, Stryker will file a freight claim with the appropriate carrier for damages incurred. Claims will be limited in amount to the actual replacement cost. In the event that this information is not received by Stryker within the fifteen (15) day period following the delivery of the product, or the damage was not noted on the delivery receipt at the time of receipt, the customer will be responsible for payment of the original invoice in full within thirty (30) days of receipt. Claims for any incomplete shipments must be made within thirty (30) days of invoice.

## International warranty clause

This warranty reflects U.S. domestic policy. Warranty outside the U.S. may vary by country. Contact your local Stryker Medical representative for additional information.







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