

SCRYKEP

Operation/Maintenance Manual



Stryker Customer Service: 1-800-327-0770



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*** FIND A QUICK REFERENCE GUIDE ON PAGE 51-52 ***

Symbols and Definitions

SYMBOLS

	Warning
\triangle	Caution
8	Refer to Instruction Manual
Ŕ	Type B Applied Part; Applied Part is the Mattress
	Safe Working Load (SWL)
X	Do Not Iron
m	Machine Wash
0	Tumble Dry
\bowtie	Do Not Bleach
C	Chlorinated Bleach Allowed (See Page 35)
	Do Not Tumble Dry
\boxtimes	Do Not Dry Clean
\bowtie	Do Not Wash
	Drip Dry
ī	Consult Instructions for Use
IP21	Ingress Protection Rating
((😭))	Equipment Emits Electromagnetic Energy
	Manufacturer
M	Date of Manufacture
Li-ion	Li Ion Battery
	CE Mark

Symbols and Definitions

SYMBOLS

EC REP	Authorized Representative in the European Community
REF	Model Number
SN	Serial Number
	Double Insulated
	Product Weight
C	Power (ON/STANDBY)
£	Lock
	Alarm Silence
00000	Pressure Alarm Indicator
	Alarm Indicator
ಕ್ರಿ	Moisture Management (MM)
00000	Pressure Redistribution (Static) Mode
00000	Alternating Low Pressure (ALP) Mode
99899 +	Increase Pressure
	Decrease Pressure
►000	Active Sensor Technology (AST)
	MAX Inflate
*	AST Contact Indicator
Ĥ	Battery Alert
	Choking Hazard
X	Do Not Dispose as Unsorted Municipal Waste

WARNING / CAUTION

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

\Lambda 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.

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 equipment 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.

ACRONYMS

ALP	Alternating Low Pressure
AST	Active Sensor Technology
CPR	Cardio-Pulmonary Resuscitation
НОВ	Head of Bed
LCD	Liquid Crystal Display
LED	Light Emitting Diode
ММ	Moisture Management (Low Air Loss)
SWL	Safe Working Load = Maximum load that the equipment can support without breaking. NOTE! SWL is not the <u>Therapeutic Weight Range</u> for this product. See Specifications Section on Page 8 for the Therapeutic Weight Range.

This manual is designed to assist with the operation and maintenance of the Stryker IsoAir[™] System ("IsoAir[™]"). Carefully read this entire manual before using or beginning maintenance on the Pump or Support Surface. To ensure safe operation of this equipment, it is recommended that methods and procedures are established for educating and training staff on the safe operation of the Pump and Support Surface.

INTENDED USE OF THE PRODUCT

The IsoAir[™] is a therapeutic support system used to assist in the prevention and treatment of all categories/stages of pressure ulcers (including stages I, II, III, IV, Un-stageable, and Deep Tissue Injury).

This system is intended for use in acute care and long-term care, not including the home environment.

CONTRAINDICATIONS

The IsoAir[™] System is intended for use as prescribed by a licensed physician. The IsoAir[™] System is contraindicated for use with certain medical conditions and treatments. Always consult with the patient's physician before commencing therapy with the IsoAir[™] System.

PRODUCT DESCRIPTION

The IsoAir[™] System offers Alternating Low Pressure (ALP) and Moisture Management (MM) on demand. The system consists of a main control unit (Pump), which provides a pressure source for inflating and deflating the air cells in the support surface. The support surface consists of a series of air cells that run laterally across the surface to support the patient, and side bolsters.

The AST feature is an auto-sensing function that is used to provide optimal immersion.

PRODUCT & THERAPY OVERVIEW

The IsoAir[™] helps to prevent and treat pressure ulcers. The air cells in the support surface are positioned every 4 inches (10 cm) from the head to the foot. Two types of therapy are available, Pressure Redistribution and ALP. Pressure Redistribution therapy fills the cells with just enough air to deeply immerse the patient into the surface. This immersion distributes pressure to support the patient as evenly as possible. ALP therapy will alternately inflate and deflate every other cell to relieve pressure and allow blood to flow into the tissue more easily. This function will continue to cycle every 6 minutes.

An additional feature called Moisture Management (MM) is available. MM enhances patient comfort and helps to prevent and treat pressure ulcers by removing moisture through the top cover. Air is pumped into the surface in the seat and torso areas to evaporate the moisture.

The Pump is connected to the air cells through flexible hoses. The Pump monitors and adjusts the air in the air cells automatically. If less air is required then the Pump opens a valve to vent some out. If more air is required then the Pump turns on its air compressor and opens a valve to direct more air into the cell.

There are two ways that the firmness / softness of the surface can be set. Manual mode allows the user to select one of five preset levels. AST mode utilizes sensors in the seat area of the surface. These sensors determine the amount of immersion of the patient. If the mattress is too soft and the patient is immersed too much, the Pump will increase the air pressure in the surface. Conversely, if it is too hard the Pump will decrease the air pressure in the surface.

ISOAIR™ SYSTEM COMPONENTS

The IsoAir[™] System is composed of a Support Surface (Mattress) and a Pump. The Surface has a built in Hose Assembly that connects to the Pump via the CPR Connector.

The Pump is supplied with two power cords, a long cord and a short cord. The long cord is for wall connection and the short cord is for connecting directly to the power socket built into some Stryker bedframes.

The system is accompanied by an Operation/Maintenance Manual.

SPECIFICATIONS

The table below lists the specifications for the IsoAir™ System:

PUMP		
Model	12SM-SRHV	
Dimensions	Height: 8.5 in / 21.6 cm Width: 8 in / 20.3 cm Depth: 5 in/ 12.7 cm	
Input Voltage AC	230 Volts +10%/-15%	
Input Frequency	50 Hz +/- 5%	
Current Consumption	0.2 Amps	
Power Consumption	< 50 Watts	
Circuit Protection	Fuses (Qty. 2), 250V, 1.6A, 5 x 20 mm, Fast blow (1500A)	
Protection Against Electrical Shock ¹	Class II Class II Medical Equipment provides electrical safety by the means of insulation without the use of grounding (protective earthing).	
Applied Part	Type B A type B rating indicates that the device may have electrical contact with the patient and the electrical contact may be connected to earth ground.	
Pressure Display Accuracy	±2 mmHg	
Pressure Settings (mmHg)	10 to 30 mmHg in 5 mmHg Increments	
Power Cord	3 ft/ 1m (For Bed Frame Outlet) & 15 ft / 5m (For Wall Outlet)	
Air Hose	34 in / 86 cm	
Air Hose Connections	5/16 Inch Flow Quick Coupling	
AST Plug	¼ in / 0.6 cm Phono Jack	
AST Cable	35 in / 89 cm	
Packaging	1 Pump per Box	
Latex Content	User accessible parts (mattress, Pumps and accessories) are not made with natural rubber latex.	
Pump Weight	11 lb / 5 kg	
Alarms (See Page 32):	1	
Maximum Sound Pressure Level	61.2 dB	
Protection Against Harmful Ingress of Liquids:		
Ingress Protection	IP21 (with CPR and AST plug attached)	
	2 Protected against solid objects over 12.5mm e.g. hands, large tools.	
	 Protected against vertically falling drops of water or condensation. 	
Applied Parts:		
Support Surfaces	See Part Number listing in the following <i>Support Surface Specifications Table.</i>	
Expected Life:		
IsoAir™ Pump	5 Years	

¹ The ground connection of the power cord is used to provide suppression of electronic noise that may interfere with other equipment. It does NOT provide electrical safety protection.

SPECIFICATIONS

Support Surface Coverlet Material Equilibrium 2 by Dartex® Support Surface Sizes: Model 203.2 cm x 88.9 cm x 45A-SR5-3580 80" x 35" x 7.0" 203.2 cm x 88.9 cm x 45A-SR5-3280 80" x 32" x 7.0" 203.2 cm x 88.9 cm x 45A-SR5-3280 80" x 32" x 7.7" 203.2 cm x 81.3 cm x 45A-SR5-3280 80" x 32" x 7.7" 203.2 cm x 81.3 cm x Maximum Support Surface Weight 28 lb 12.7 kg Safe Working Load 550 lb 250 kg Therapeutic Weight Range 50 lb - 350 lb 22.7 kg - 158.7 kg Flammability Standards 16 CFR 1632 16 CFR 1632 CAL TB 129 U/I/I 9175 Boston BFD IX-11 Canada - Method CAN/CGSB-4.2 No. 27.7-2013 BS 597-1, BS 597-2, BS7177/BS6807 (Crib 5) Compatible Bed Frames 2030-000-000 Epic / Epic II Critical Care bed 3002-000-000 Apex Critical Care Bed FL27 InTouch Critical Care bed 3002-000-000 Sa MedSurg Bed Biocompatibility Standards IS0 10993-1, IS0 10993-1, IS0 10993-10 System Operating Conditions Relative Humidity Armospheric Pressure 700 to 1060 hPa System Storage and Shipping Conditions: Relative Humidity Armospheric Pressure (hPa) 500 to 1060 hPa Produ		
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AAMI ES60601-1		
	AAMI ES60601-1	
Collateral Standards Electromagnetic Compatibility, <i>IEC 60601-1-2</i> (See Pages 47-4 Usability, <i>IEC 60601-1-6</i> Alarms, <i>IEC 60601-1-8</i>		
Expected Life:		
IsoAir™ Support Surface Coverlet 2 Years Support Surface without Coverlet 5 years		

Stryker reserves the right to change specifications without notice.

CONTACT INFORMATION

Contact Stryker Customer Service at **1-800-327-0770** for assistance in setting up, using or maintaining the IsoAir[™] System, or if you encounter any unexpected events/operation.

Stryker Medical

3800 E. Centre Avenue Portage, MI 49002 USA

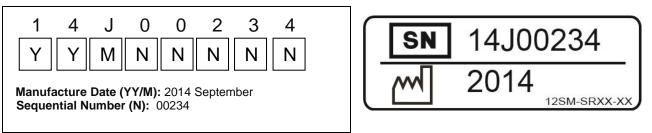
Please have the serial number of your Stryker product available when calling Stryker Customer Service. Include the serial number in all written communication.

PUMP SERIAL NUMBER LOCATION

The serial number is located on the back of the Pump as shown in the label example to the right.

SERIAL NUMBER FORMAT (8 CHARACTERS):

Serial Number Example: 14J00234



Year Legend (Y)		
2014	14	
2015	15	
2016	16	
2017	17	
2018	18	

Month Legend (M)		
January	А	
February	В	
March	С	
April	D	
Мау	E	
June	F	
July	G	
August	Н	
September	J	
October	К	
November	L	
December	М	

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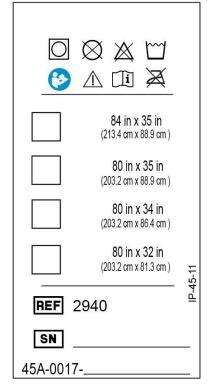
SUPPORT SURFACE SERIAL NUMBER LOCATION

The serial number is located inside the support surface on the patient right side at the foot end near the corner.

St 380	TO BE ABOVE THIS LINE ryker Medical D0 E. Centre Ave. rtage, MI 49002	
	84 in x 35 in (213.4 cm x 88.9 cm)	Ĵ
	80 in x 35 in (203.2 cm x 88.9 cm)	
	80 in x 34 in (203.2 cm x 86.4 cm)	
	80 in x 32 in (203.2 cm x 81.3 cm)	IP-45-12-EU D
REF 2	940	IP-46
SN		
45A-SR	Ç	E

COVERLET SERIAL NUMBER LOCATION

The serial number is located on the patient right side at the foot end of the coverlet.



Before operating this medical equipment, carefully read and strictly follow the Warnings and Cautions presented in the following sections.

General

- Read this manual to understand the operating instructions and safety precautions. Failure to do this could result in patient injury and/or damage to the product.
- To avoid the risk of electric shock inspect the Pump and power cord for damage. If damage is observed, take the Pump out of operation immediately and contact Customer Service. (See Page 9 for Contact Information).
- Entrapment & Falls: Evaluate patients for the risk of entrapment & falls according to facility protocols. Ensure side rails are fully locked when in the raised position. Failure to do this could result in death or injury.
- The patient should be evaluated for suitability of the device to treat the patient's condition.
- It is the responsibility of the operator to monitor the patient and the patient's skin condition at regular intervals, per medical protocols, to ensure patient safety and proper support surface performance. Consult a physician if irritation or skin breakdown occurs.
- Do not modify or change this device. There are no user-serviceable parts inside the Pump. Service should only be completed by qualified personnel. Failure to do so could result in injury and void warranty.
- Connect only items that have been specified as part of the device, or specified as being compatible with the device.
- Pressure in support surface is under automated control and may adjust without notice. Use care when
 performing medical procedures on patient.
- Smoking in bed or improper use of radiant heaters may cause a fire. Doing so could result in death or injury.

Support Surface

- To avoid the risk of patient injury, do not use the support surface on a bed frame of a larger or smaller size. The risk of entrapment can develop when the support surface is placed on bed frames that leave gaps between the support surface and the headboard, footboard, and side rails. The support surface is not to be used when such gaps are present.
- To avoid risk of severe injury, properly secure support surface to the frame according to the instructions for use.
- Initiate deflation of the Support Surface before starting CPR. Failure to do so may result in ineffective CPR. Refer to Page 27.
- The hose sleeve is a safety feature. Do not operate the equipment without the sleeve in place.
- Risk of entanglement if hose sleeve is not secured to the back plate of the CPR connector.
- Risk of asphyxiation due to entanglement with hoses. Ensure hose sleeve is correctly installed.
- Ensure that all side rails are fully latched when in the raised position. Failure to do so could result in serious injury or death including patient falls.
- To avoid the risk of patient injury and equipment damage, do not use the support surface handles or straps to lift, or move the support surface with a patient on it.
- To avoid the risk of patient and operator injury, a minimum of two (2) operators is required when transferring a
 patient. Operators need to be positioned so that they can control patient positioning.
- To avoid the risk of patient injury, ensure the opposite side rail is raised when placing a patient on the support surface.

- Pump
 - Risk of Electric Shock. Do not open or attempt to repair or service the electronic Pump. Repairs and service should only be done by authorized personnel. If the Pump is not functioning properly, or has been damaged, unplug the Pump and take it out of service immediately and contact Customer Service. (See Page 9 for contact information).
 - Electrical-safety testing of your Pump should be performed at least annually. Failure to do so may result in death or injury. Contact Customer Service, **Page 9**, for service information.
 - Medical Electrical Equipment needs special precautions regarding Electro-Magnetic Compatibility (EMC) between devices and needs to be installed and put into service according to the EMC information provided in this manual (See Pages 47-49). However, there is no guarantee that interference will not occur in a particular installation. If the pump causes harmful interference to other devices or other equipment causes harmful interference to the pump, which can be determined by turning equipment ON and OFF, the user is encouraged to try to correct the interference by one or more of the following measures:
 - 1. Reorient or relocate the receiving device.
 - 2. Increase the separation between the Pump and other equipment.
 - 3. Connect the equipment into an outlet on a circuit different from that to which other device(s) are connected.

Consult with Stryker Customer Service for assistance.

- The Pump should not be used adjacent to or stacked with other equipment, doing so may cause abnormal
 operation in either device. If adjacent or stacked use is necessary, the Pump and other equipment should be
 observed to verify normal operation in the configuration in which it will be used.
- Portable and mobile RF communications equipment, such as wireless home network devices, mobile phones, cordless telephones, their base stations, and walkie-talkies can affect this and other Medical Electrical Equipment. See Pages 47-49 for guidance.
- The use of accessories and cables other than those specified, with the exception of those sold by the manufacturer as replacement parts, may result in increased emissions and/or decreased immunity of the device.
- The Pump hangers are not intended to be in patient contact. Extended patient contact with the Pump hangers may cause injury.
- Do not use in the presence of flammable anesthetics, nitrous oxide, or oxygen-rich environments. Risk of explosion, burns and asphyxiation can result.
- Exposure of the electronic Pump to any liquid while it is plugged in could result in a severe electrical hazard.
- To avoid risk of injury do not place objects on the surface of the Pump.
- The AST cable ONLY connects to the AST-socket. Connecting it anywhere else may result in severe electrical shock.
- If "Key-Click" sound is not heard, DO NOT use the Pump.
- Pressure in support surface is under automated control and may adjust without notice. Use care when performing medical procedures on patient.
- The device is not compatible for use in MRI.
- AC mains power must be connected to provide therapy. If power is lost, therapy provided will be discontinued.
- Good filter maintenance is critical in keeping your IsoAir[™] Pump in optimal operating condition. Failure to clean the filter may cause damage to the Pump. A damaged Pump may not provide proper support pressures resulting in patient injury.

Electrical Connections & Power Cord

- Plug the power cord into a properly grounded outlet. Failure to do so may cause electronic noise that may interfere with other equipment e.g. ECG, EKG, or EEG.
- Do not use multiple socket outlets or extensions. This may result in an electrical hazard.
- Power cord may cause tripping hazard. Route cord under bed frame.
- Before plugging in the Pump, check the power cord for damage, e.g. cuts, exposed wires, worn insulation, etc. If hazards are present, take the Pump out of operation immediately and contact Customer Service. (See Page 9 for Contact Information)
- Improper use or handling of the power cord could result in damage. If damage of power cord is present, do
 not use and call qualified maintenance personnel for replacement (See Parts list on Page 46). To avoid risk of
 electric shock use approved power cords only.
- The power cord to the Pump should be positioned to avoid a tripping and strangulation hazard and/or damage to the cord. Stryker recommends placing the cord under the bed frame and plugging it into an electrical outlet by the head end of the bed, or the integral electric outlet on the bed frame using the shorter cord provided.
- Orient power cord so that it is not difficult to disconnect.
- Risk of asphyxiation due to entanglement with cords. Route cord under bed frame.

Disinfection

- Disinfect the Pump and Surface between patient installations and when servicing, utilizing standard hospital protocol and disinfectants. Failure to disinfect may risk cross-contamination and infection.
- When disinfecting is required, check disinfectant manufacturer's instructions before use, and use disinfectant and personal protective equipment in accordance with the manufacturer's instructions.
- Do not spray disinfectant directly on the electrical Pump, or immerse the Pump in any type of liquid. This
 could result in a severe electrical hazard.
- All disinfection should be done using a "hospital-grade" disinfectant.
- DO NOT spray disinfectant directly on the electrical Pump, or immerse the Pump in any type of liquid. This could result in a severe electrical hazard.
- Check patient medical history for allergies to the disinfectants listed on Page 35.

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General

- Check the system and surrounding area for pests that may damage the system causing harm to the patient.
- Do not return a Pump for any reason without first contacting Customer Service to obtain authorization.
- Do not leave children and pets unattended while the IsoAir™ System is in use. They may damage the system that may cause bodily harm to themselves and/or the patient.
- DO NOT service or perform maintenance while the product is in use. May result in patient injury.

Support Surface

- Use care when using sharp objects, such as needles, as these can damage the air cells in the support surface.
- Do not use harsh cleansers, solvents, or detergents on the Pump/Surface. Equipment damage could occur.
- To avoid the risk of equipment damage, when cleaning the underside of the support surface, ensure that no liquid is allowed to seep into the zipper area and watershed cover barrier; fluids allowed to come in contact with the zipper may leak into the support surface.
- AST sensor cells (light blue) can be wiped down, but not laundered.
- Cap the air cell connectors before laundering (See **Page 37**. Failure to cap the connectors will lead to liquid ingress inside of the air cell and the risk of damage or mold growth through incomplete drying.
- The Mattress includes straps at the bottom center that are intended for storage use. Do not use these to tie the Mattress to the bedframe. May result in equipment damage.

Pump

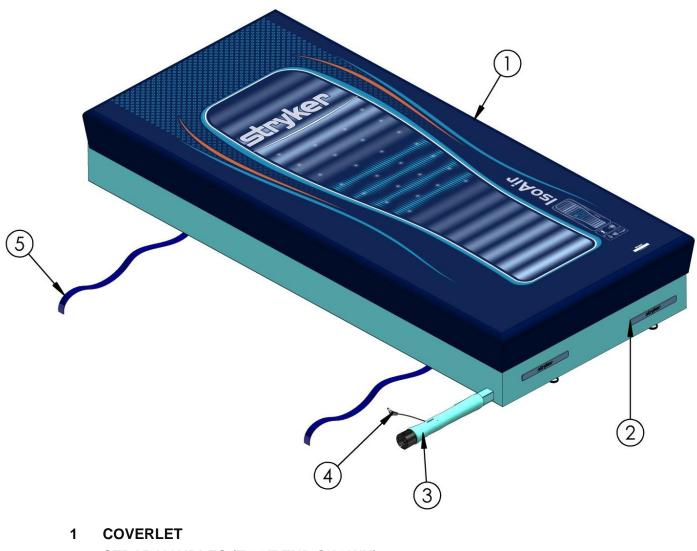
- When hanging the Pump on the foot board, ensure the hangers are seated as they are not spring loaded and may become dislodged if not properly hung.
- The Pump is a precision electronic product. Use care when handling or transporting. Dropping, or other sudden impacts, may result in damage to the Pump.
- After exposure to extreme high or low temperatures, allow the Pump to equilibrate for at least one (1) hour before operating.
- The Pump circulates room air during operation. Exposure to smoke may cause the Pump to fail. Therefore, smoking by patients, or visitors, while using this product should be avoided.
- DO NOT autoclave the Pump OR the Hosing Assembly. May result in equipment damage.
- Unplug the Pump from its source prior to cleaning. Failure to do so may result in an electrical hazard.

Environmental

- To prevent the materials in this product from contributing to potentially serious health and/or environmental hazards:
 - 1. Consult your local regulations to safely dispose of electronic equipment, batteries, and/or any biohazardous waste.
 - 2. Do not dispose of as unsorted municipal waste. See your local distributor for return or collection systems available in your country.

Support Surface Assembly

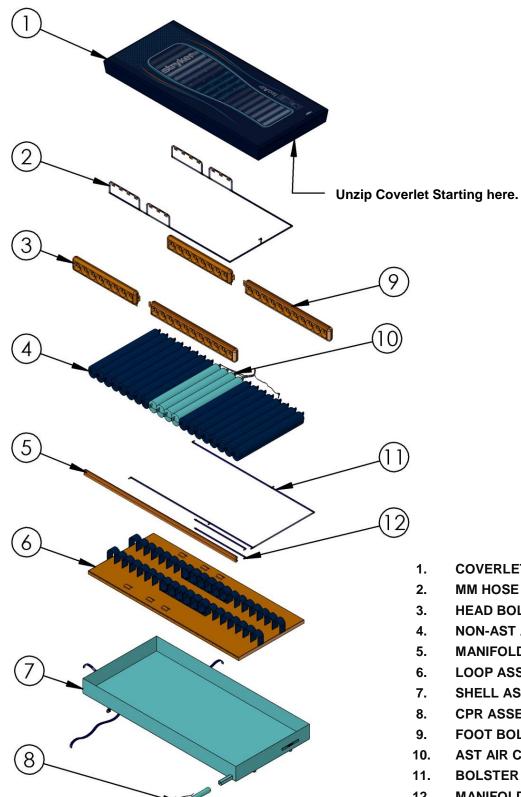
The location of features and connections on the Support Surface are presented below. Please refer to these during installation, set up and operation of the Support Surface.



- 2 STRAP HANDLES (FOOT END SHOWN)
- 3 CPR CONNECTOR
- 4 AST CABLE
- 5 TIE DOWN STRAPS

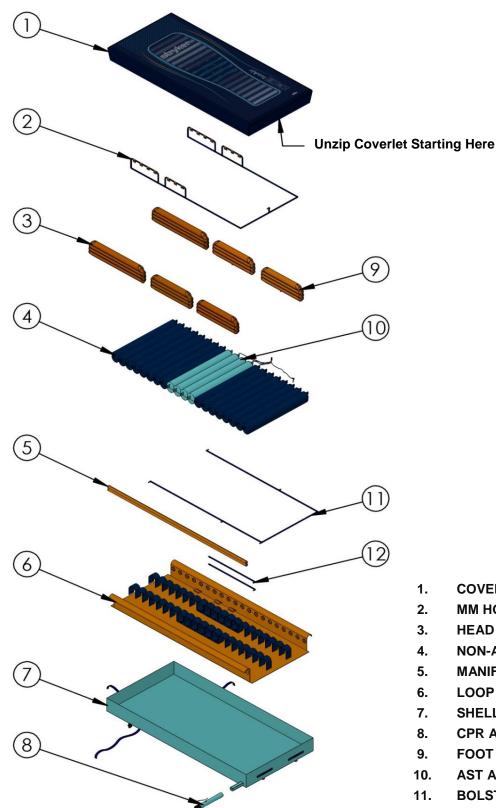
The Mattress includes straps at the bottom center (not shown) that are intended for storage use. Do not use these to tie the Mattress to the bedframe. May result in equipment damage.

7.0" / 17.8 cm AIR CELL (AIR/FOAM) SUPPORT SURFACE



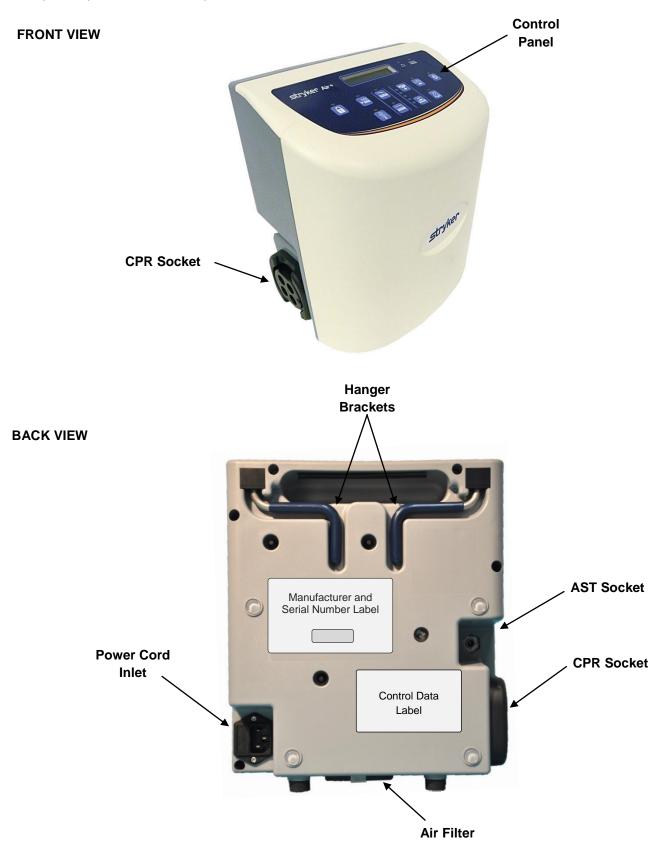
- COVERLET ASSEMBLY
- MM HOSE ASSEMBLY
- HEAD BOLSTER
- **NON-AST AIR CELLS**
- MANIFOLD
- LOOP ASSEMBLY
- SHELL ASSEMBLY
- **CPR ASSEMBLY**
- FOOT BOLSTER
- AST AIR CELL PACK
- **BOLSTER HOSE ASSEMBLY**
- MANIFOLD HOSE ASSEMBLY 12.

7.7" / 19.6 cm AIR CELL (AIR ONLY) SUPPORT SURFACE



- COVERLET ASSEMBLY
- **MM HOSE ASSEMBLY**
- **HEAD BOLSTER**
- **NON-AST AIR CELLS**
- MANIFOLD
- LOOP ASSEMBLY
- SHELL ASSEMBLY
- **CPR ASSEMBLY**
- FOOT BOLSTER
- AST AIR CELL PACK
- **BOLSTER HOSE ASSEMBLY**
- MANIFOLD HOSE ASSEMBLY 12.

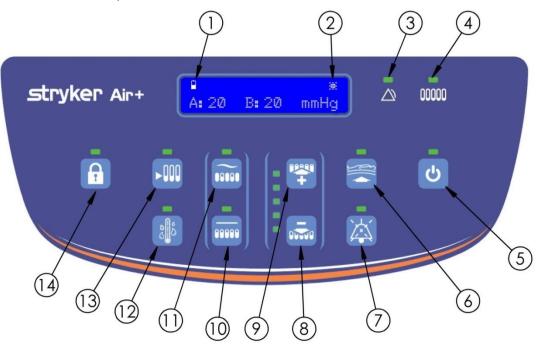
The location of features and connections on the Pump are presented below. Please refer to these during installation, set up and operation of the Pump.



Pump Controls & Indicators

CONTROL PANEL

The Control Panel of the Pump is shown in the picture below.



- 1 Battery Alert
- 2 AST Contact Indicator
- 3 Alarm Signal Indicator
- 4 Pressure Alarm Indicator
- 5 Power
- 6 MAX Inflate
- 7 Alarm Silence

- 8 Pressure Down (Decrease)
- 9 Pressure Up (Increase)
- 10 Pressure Redistribution (Static) Mode
- 11 ALP Mode
- 12 MM Mode
- 13 AST Mode
- 14 Lock

LCD ICONS

1. BATTERY ALERT

If there is a fault detected in the Battery charging circuit, or the battery charge is below the acceptable range the Battery Alert icon \square will appear in the upper left corner of the LCD. This will not affect the operation of the system unless there is a Power Fail condition.

2. AST CONTACT INDICATOR

When the system is in AST mode and the AST Sensor is in contact, and asterisk (*) will appear in the upper right corner of the LCD.

LEDs

As shown above, each key has a corresponding LED that is lit if the key is selected. Additionally, two other LED's provide information related to the Pump.

3. ALARM SIGNAL INDICATOR

The Pump is equipped with an Alarm Signal Indicator which flashes to alert the user that an alarm is active and requires resolution before continuing use (See **Pages 32-33**, Alarms and Alert Indications).

4. PRESSURE ALARM INDICATOR

The Pump is equipped with a Pressure Indicator LED to alert the user that the actual pressure is out of the specified range (See **Pages 32-33**, Alarms and Alert Indications).

KEY FUNCTIONS

The control panel has ten (10) keys as shown in the picture above: Each key will light up the associated LED indicator(s) when activated.

1. POWER

Turns Pump ON or to STANDBY. When Unit is plugged in and in STANDBY, the LED indicator is white. When the Unit is ON, the LED indicator is green.

2. MAX INFLATE

Activates Max Inflate override mode.

3. ALARM SILENCE

Stops ALARM sound.

4. PRESSURE UP

Increases Pressure setting in 5 mmHg Increments (Illuminated LED indicators increase with each key press).

5. PRESSURE DOWN

Decreases Pressure setting in 5 mmHg Decrements (Illuminated LED indicators decrease with each key press).

6. **PRESSURE REDISTRIBUTION (STATIC)** Activates Pressure Redistribution therapy mode.

7. ALP

Activates ALP therapy mode.

8. **MM**

Activates Moisture Management supplementary therapy mode.

9. **AST**

Activates AST therapy mode.

10. LOCK

Locks settings and prevents keys from functioning.

PUMP FUNCTIONS:

ALARM FUNCTION

The Pump is equipped with a flashing/audible alarm to alert the user that the actual pressure is out of the specified range. This typically indicates a leak or a kinked hose and requires resolution before continuing use (See **Page 30**), Troubleshooting Guide and Alarm Priority Table).

LOCK FUNCTION

Pressing and holding the **LOCK** Key for three (3) seconds will lock the current settings to avoid unintended changes. Pressing and holding the **LOCK** Key for three (3) seconds again will allow setting(s) to be changed. Note, LOCK function does not lock the ALARM SILENCE function.

ALARM SILENCE FUNCTION

Pressing the **ALARM SILENCE** Key disables Alarm sounds for 10 minutes. Note that this only affects currently active alarms, it cannot be used to silence possible future alarms.

PRESSURE UP FUNCTION

Pressing the **PRESSURE UP** Key will increase the pressure level from 1 to 5 (from 10 to 30 mmHg) while in Pressure Redistribution or ALP modes.

PRESSURE DOWN FUNCTION

Pressing the **PRESSURE DOWN** Key will decrease the pressure level between 5 and 1 (from 30 to 10 mmHg) while in Pressure Redistribution or ALP modes.

MAX INFLATE FUNCTION

MAX INFATE is used for any procedure in which a firm surface is required. Pressing the **MAX INFLATE** Key activates the Max Inflate override mode. The Max Inflate override mode inflates all cells to maximum pressure and disables manual adjustment of cell pressure (**PRESSURE UP** and **PRESSURE DOWN** Keys will be inoperable while this mode is active). The cells will remain inflated to maximum pressure for 15 minutes. A countdown timer is displayed on the display, indicating the time remaining in Max Inflate override mode. An alert tone is emitted when the Max Inflate override mode times out.

While the Max Inflate override mode is active, activating either main therapy mode (via the **ALP** or **PRESSURE REDISTRIBUTION** Keys) will disable Max Inflate override mode. Pressing the **AST** key does not affect the MAX Inflate operation.

After Max Inflate override mode times out or is disabled, the Pump resumes operation based on the therapy mode setting and pressure settings in effect prior to initiating the Max Inflate Override mode.

PRESSURE REDISTRIBUTION (STATIC) FUNCTION

Pressing the Pressure Redistribution Key activates the Pressure Redistribution therapy mode, which keeps all cells at constant pressure and allows for manual adjustment of cell pressure (**PRESSURE UP** and **PRESSURE DOWN** Keys will function normally while this mode is active). Activating MAX INFLATE or ALP mode (via their respective Keys) will disable Pressure Redistribution therapy mode.

ALP FUNCTION

Pressing the **ALP** Key activates the ALP therapy mode, which alternately inflates and deflates cells to relieve pressure and allows for manual adjustment of cell pressure (**PRESSURE UP** and **PRESSURE DOWN** Keys will function normally while this mode is active). Activating MAX INFLATE or Pressure Redistribution (Static) mode (via their respective Keys) will disable ALP therapy mode.

AST FUNCTION

Pressing the **AST** Key activates the AST mode. AST mode works to automatically adjust air cell pressures to control patient immersion. Enabling AST disables manual adjustment of cell pressures (**PRESSURE UP** and **PRESSURE DOWN** Keys will be inoperable while this mode is active). AST mode can be active while either Pressure Redistribution or ALP mode is active. Activating Max Inflate mode (via the **MAX INFLATE** Key) will disable AST mode.

MM FUNCTION

Pressing the **MM** Key activates the Moisture Management therapy mode. Moisture Management mode can be active while any other mode is active (AST, ALP, Pressure Redistribution, or Max Inflate), and will only be disabled by pressing the **MM** Key a second time.

LCD DISPLAY

The following information is displayed on the LCD Display:

AIR CELL PRESSURE

Measured pressure values for Zone A and Zone B air cells are displayed in mmHg.

HOUR METER

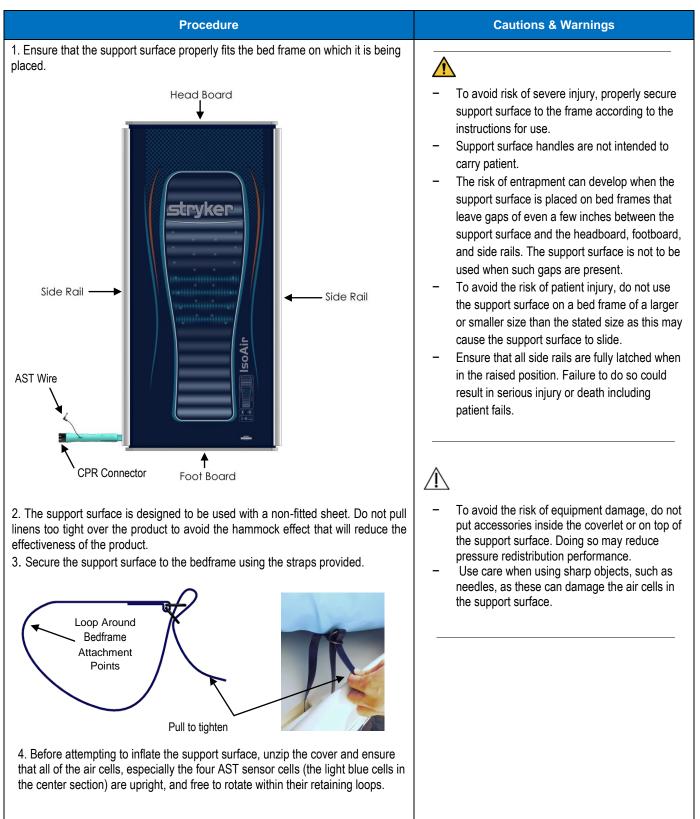
When the **ALARM SILENCE** key is pressed for more than 3 seconds, the accrued time for hours of operation will be displayed for 30 seconds.

MAX INFLATE COUNTDOWN TIMER

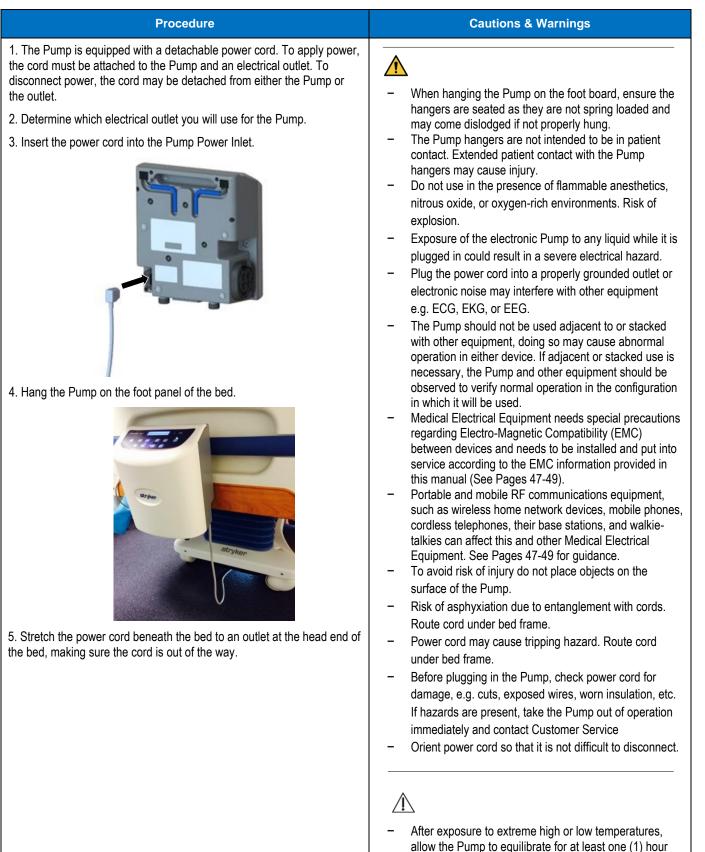
While the MAX INFLATE function is active a countdown timer will be displayed. The countdown timer will indicate the fifteen (15) minute countdown for the MAX INFLATE function. If the MAX INFLATE function is deactivated, the countdown timer is removed from the display.

Follow the procedures below for the installation and operation of the Pump and Support Surface:

INSTALLATION OF SUPPORT SURFACE:

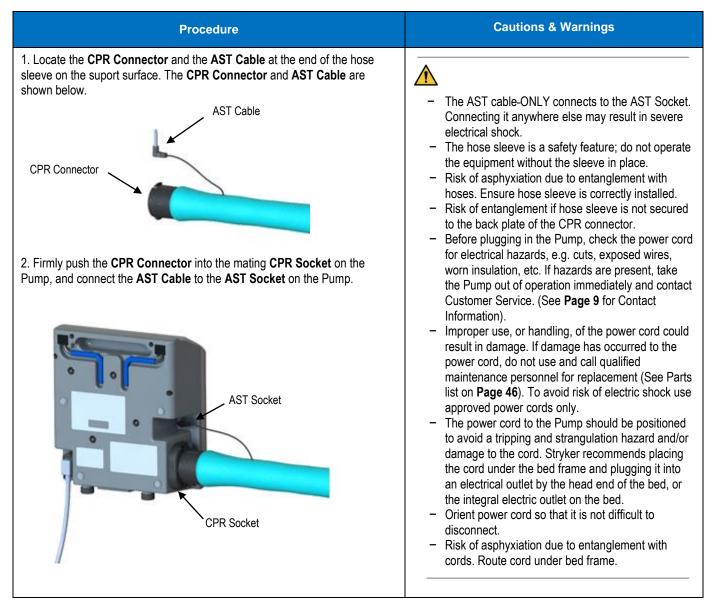


INSTALLATION OF PUMP:



before operating.

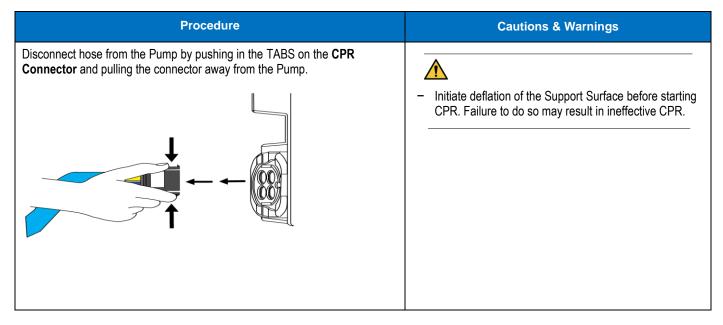
CONNECTING THE SUPPORT SURFACE TO THE PUMP:



PUMP OPERATION:

Procedure	Cautions & Warnings
 Procedure 1. While standing in front of the Pump, press the POWER key located on the Control Panel to turn the Pump ON. Listen for a "Key-Click" sound to verify operation of audio-alarm system. If Pump lights do not come on, see Troubleshooting Page 30. NOTE! When powered on, the Pump will revert to the previous MODE and PRESSURE settings. 2. PRESSURE REDISTRIBUTION Mode: Press the Pressure Redistribution MODE key. The LED will illuminate and the Pump will start inflating the support surface. The support surface will inflate in approximately 10 minutes. Start with the MAX INFLATE setting. 3. Pressure Adjustment: The Pump is capable of adjusting the cushion pressure to five set points over a range of 10 to 30 mmHg. The five set points can be adjusted directly by the PRESSURE UP Key and the PRESSURE DOWN Key, which will increase and decrease the pressure of the cells, respectively. 4. ALP Mode: To activate the ALP therapy mode press the ALP key. ALP Therapy Mode will alternately inflate and deflate the cells in the support surface at three minute intervals. To deactivate ALP therapy mode, press the PRESSURE REDISTRIBUTION key to change to Pressure Redistribution Mode. 5. MM Function: To activate the MM function, press the MM key. The MM function provides a constant stream of air between the support surface and the coverlet to keep the patient dry. To deactivate the MM function, press the AST function press the MANUAL key. 6. AST Function: To activate the AST function, press the AST Key. The AST function press the MANUAL key. 7. MAX INFLATE Function: To activate the MAX INFLATE function press the MAX INFLATE function will inflate all cells in the support surface to the maximum pressure. Manual adjustment of pressure settings is not allowed in MAX INFLATE mode. The MAX INFLATE function is intended to be used when the mattress should not be moving, such as when the patient. MAX INFLATE mode will last for 15 minutes. At	 Cautions & Warnings If "Key-Click" sound is not heard, DO NOT use the pump. Pressure in support surface is under automated control and may adjust without notice. Use care when performing medical procedures on patient. AC mains power must be connected to provide therapy. If power is lost, therapy provided will be discontinued. Do not use multiple socket outlets or extensions. This may result in an electrical hazard. M The Pump is a precision electronic product. Use care when handling or transporting. Dropping, or other sudden impacts, may result in damage to the Pump. After exposure to extreme high or low temperatures, allow the Pump to equilibrate for at least one (1) hour before operating. The Pump circulates room air during operation. Exposure to smoke may cause the Pump to fail. Therefore, smoking by patients, or visitors, while using this product is contraindicated. To ensure optimal performance electrical-safety testing of your Pump should be performed at least annually. Contact Customer Service, Page 9, for service information. Do not leave children and pets unattended while the IsoAir™ System is in use. They may damage the system that may cause bodily harm to themselves and/or the patient. Check the system and surrounding area for pests that may damage the system causing harm to the patient.
While the MAX INFLATE mode is active, a countdown timer, indicating the time remaining in MAX INFLATE mode, will be displayed.	
To deactivate MAX INFLATE prior to the automatic deactivation, press the MAX INFLATE key, or initiate ALP or PRESSURE REDISTRIBUTION therapy modes.	
8. LOCK Function: To prevent inadvertent changes of the Pump settings, the control panel can be locked by pressing and holding the LOCK key for three (3) seconds. When the control panel is locked, the LOCK LED will be illuminated.	
While the control panel is locked, pressing any other key, except the LOCK key and Alarm Silence key will result in a LOCK Alert being generated.	

CPR ACTIVATION:

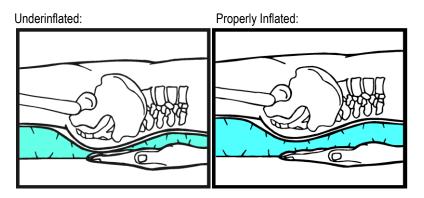


PRESSURE ADJUSTMENT CHECK:

Procedure

1. To ensure the patient is getting the proper therapy, periodically use HAND CHECKS to check for proper inflation.

2. When the mattress is in the Manual Mode a HAND CHECK should be performed to establish the correct pressure setting. Perform a HAND CHECK whenever the patient is repositioned.



3. Slide your hand, palm up, with fingers flat, between the bed surface and the mattress at the patient's lower back or hip.

NOTE! Do not lean on the product or lift at the side as these actions can lead to false readings.

Adjust the pressure setpoint until you can no longer feel the patient's lower back or hip. If you can feel the bony prominence inflate the product using the **PRESSURE UP** key on the Pump.

Wait two minutes and repeat the HAND CHECK until you have adequate inflation.

Cautions & Warnings



 It is the responsibility of the operator to monitor the patient and the patient's skin condition at regular intervals, per hospital protocols, to ensure patient safety and proper support surface performance. Consult a physician if erythema or skin breakdown occurs.

PATIENT HANDLING:

Procedure	Cautions & Warnings
 TRANSFERRING A PATIENT FROM ONE SUPPORT PLATFORM TO ANOTHER: 1.To transfer a patient from one support platform to another, e.g. bed frame, stretcher, gurney, operating table: 2. Prerequisites: Two operators will be required for this task. 1) Position the patient along the center line of the support surface. 2) It is recommended that the surface be placed in MAX INFLATE mode, unless ohterwise contraindicated. 3) Position the patient support platforms alongside each other, as closely as possible. 4) Set the brakes to "ON" for both support platforms. Ensure that the two support surfaces are level with each other. 5) Raise the bed side rail located opposite the patient transfer. Move ONLY the patient. DO NOT attempt to move the IsoAir™ surface with a patient on it.	 To avoid the risk of patient injury, do not transfer the patient from one bed to another using the support surface with a patient on it. To avoid the risk of patient and equipment damage, do not use the support surface straps to lift or move the support surface with a patient on it. To avoid the risk of patient and operator injury, a minimum of two (2) operators is required when transferring a patient. Operators need to be positioned so that they can control patient positioning. To avoid the risk of patient injury, ensure the opposite side rail is raised when placing a patient on the support surface.
 TRANSPORTING A PATIENT ON THE ISOAIR™ SYSTEM: 1. To transport the patient while he/she is on the IsoAir™ System perform the following steps – Adjust the bed and mattress to the desired transport position. Allow the pressures to stabilize. Press POWER key to place Pump into Standby. Unplug the Pump power cord. Secure the power cord to avoid rolling the bed frame over it and to eliminate tripping hazard. Transport patient to the desired location. Plug the power cord into a power outlet. Press POWER key to turn Pump back on. 	 To avoid the risk of patient injury, ensure both side rails are raised when transporting the patient. Power cord may cause tripping hazard. Secure to bed frame prior to initiating transport.
2 The system will resume the previous modes and settings.	
NOTE! While the IsoAir [™] System is not plugged in, a power fail condition exists. The system will not deflate for at least two hours.	

INCONTINENCE / DRAINAGE

This support surface is NOT intended to manage incontinence. Therefore, it is recommended to use incontinence management devices when appropriate. Disposable diapers or incontinence pads may be used. Ensure appropriate skin care is provided following each episode.

Troubleshooting Guide

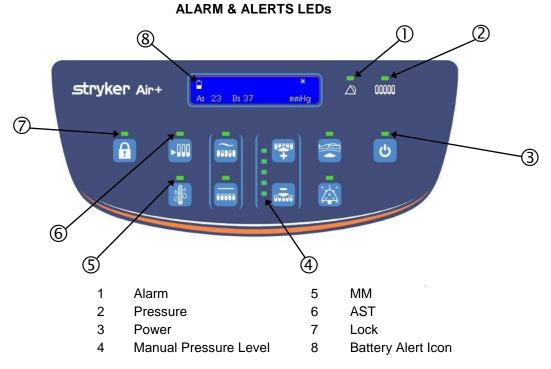
Condition	Problem	Recommended Action
Stuck Key AST Connection	 An audible alarm is present The ALARM LED is blinking The LED for one of the Keys is flashing (identifying the Stuck Key) An audible alarm is present 	 Press and release the key with the flashing LED to clear the stuck key. If condition persists contact Stryker Customer Service Page 9, or authorized service personnel. Check that the AST plug is completely inserted
AST Connection	 An addible alarm is present The ALARM LED is blinking The AST LED is blinking 	 Check that the AST plug is completely inserted into the AST socket. Toggle the AST key (OFF/ON) to see if condition clears. If condition persists contact Stryker Customer Service Page 9, or authorized service personnel.
AST Sensor	 If the AST Sensor remains in contact for more than 15 minutes while operating in AST mode: An audible alarm is present The ALARM LED is blinking The AST Key LED is blinking and Pressure Indicator LED is blinking 	 If patient is in fowler, reduce HOB angle. Unzip cover and check that AST air cells are correctly positioned underneath patient. Perform a hand check to ensure that the patient is not bottoming out. If condition persists contact Stryker Customer Service Page 9, or authorized service personnel.
Pressure Alarm	 A high or low air pressure condition exists; an air cell pressure is outside the allowable range. An audible alarm is present The ALARM LED is blinking The Pressure LED is blinking 	 Check that the CPR connector is correctly plugged into the Pump. Check for kinks in hoses from the CPR connector to the support surface. Unzip the top cover. Reach inside the support surface and check air cells, hoses and connections for possible leaks. If condition persists contact Stryker Customer Service Page 9, or authorized service personnel.
MM Low Flow (Low Air Loss)	 The MM air flow is below the minimum expected threshold for 5 seconds. An audible alarm is present The ALARM LED is blinking The MM LED is blinking The Pressure LED is blinking 	 Check the CPR hose bundle is free from pinches Unzip the top cover. Check for air flow blockage by following the MM hoses inside the support surface (See Page 16). If condition persists contact Stryker Customer Service Page 9, or authorized service personnel.
System Error	In the event of a hardware failure: - An audible alarm is present - The ALARM LED flashing - The LCD backlight is blinking	 Cycle the power. If condition persists contact Stryker Customer Service Page 9, or authorized service personnel.

Troubleshooting

Troubleshooting Guide (Continued)

Condition	Problem	Recommended Action
Power Fail	May be caused by: - AC power outage - disconnected power cord - blown fuse - internal damage	 Make sure the power cord is plugged in, AC power is ON and the Power LED is lit (white for standby, green for unit turned on). If condition persists contact Stryker Customer Service Page 9, or authorized service personnel.
Pump Does Not Turn On	May be caused by: - AC power outage - disconnected power cord - blown fuse - internal damage - Power On "stuck key"	 Make sure the power cord is plugged in, AC power is ON and the Power LED is lit (white for standby, green for unit turned on). See recommended action for Keys not responding If condition persists contact Stryker Customer Service Page 9, or authorized service personnel.
Keys not responding	May be caused by: - LOCK function - Stuck Key	 Make sure the power cord is plugged in and the unit is turned ON (not in Standby). Power LED should be green. Check LOCK key for activation. If the LOCK key indicator is ON, Press and hold the LOCK key for three seconds to deactivate. In case of a Stuck Key, press and release key with the flashing LED to clear the stuck key. If condition persists contact Stryker Customer Service Page 9, or authorized service personnel.
Support Surface does not inflate	 May be caused by: the Pump not being plugged into a power outlet The unit being in Standby (Power LED is white), but not turned ON (Power LED is green) internal damage or failure 	 Make sure the power cord is plugged in and the unit is turned ON (not in Standby). Power LED should be green. Check that the CPR hose is properly connected. If condition persists contact Stryker Customer Service Page 9, or authorized service personnel.
Air Leak	 If the support surface is not fully inflated in 15 minutes it may indicate an air leak. 	 Check that the CPR hose connector is properly attached to the Pump. Check the CPR hose bundle for possible damage Unzip the top cover and check the air cells and tubing for air leaks. If condition persists contact Stryker Customer Service Page 9, or authorized service personnel.
Battery Alert Icon appears on LCD display	- Battery charge is low	 Ensure power is connected for at least five hours. If condition persists contact Stryker Customer Service Page 9, or authorized service personnel.
Interference on other equipment (e.g. ECG, EKG, or EEG)	 the Pump is not plugged into a properly grounded power outlet. 	 Ensure power outlet is properly grounded. Disconnect the AST connector and run the unit in Manual Pressure mode. If condition persists contact Stryker Customer Service Page 9, or authorized service personnel.

All alarms are indicated by a flashing LED and accompanied by an audible alarm. Only the highest priority alarm is sounded.



ALARM PRIORITY AND CAUSE TABLE

Alarm ¹	Notification Priority	Cause	Alarm May Stop If:		
Power Fail	1	The Pump is not receiving electricity.	 The system is turned off OR Power is applied 		
Hardware Failure	2	 The Pump has detected one of the internal hardware faults listed below: Problem with the reading/writing operation of the parameters for Pressure Calibration, User Settings, User Timers or an invalid Hour Meter reading has been detected. Failure of clock electronics - Failure of LCD electronics Failure of LED electronics - Failure of Audio electronics Failure of compressor electronics Problem with power supply voltage levels 	 The system is powered off OR The condition is corrected 		
Stuck Key	3	The Pump has detected that a key has been continuously activated for more than 15 seconds	 The system is powered off OR The condition is corrected 		
AST Connection Error	4	The Pump has detected that either the AST cable is disconnected or there is an electrical failure in the support surface for 1 second	 The system is powered off OR Max Inflate is turned on OR AST Connection has been restored 		
AST Sensor	4	Patient contact activates the AST Sensor for more than 15 minutes while operating in AST mode	 The system is powered off OR Max Inflate is turned on OR No contact is detected for 5 seconds 		
Pressure Alarm	5	The system has been turned on for more than 15 minutes AND A high or low pressure condition exists in any support cell for 10 minutes OR a low pressure condition exists in the bolster for 10 minutes	 The system is powered off OR Pressure returns to the specified range for 5 seconds 		
MM Low Flow	6	The Manifold pressure is greater than > 65 mmHg for 5 seconds.	 The system is powered off OR MM Mode is turned off OR The manifold pressure is below 60 mmHg for 5 seconds 		

1 - All alarms are classified as Medium Priority per IEC 60601-1-8.

ALARM and ALERT INDICATIONS TABLE

		Control Panel Indicator					
Alarm/ Alert ¹	LCD Display	Alarm Signal LED	Pressure Indicator LED	Power LED	AST LED	Lock LED	MM LED
Power Fail	N/A	Blinking ²	Off	Blinking	Off	Off	Off
Hardware Failure	Blinking	Blinking	N/A	N/A	N/A	N/A	N/A
Stuck Key	N/A	Blinking	N/A	Flashes ³ the LED for the Stuck Key			
AST Connection Error	N/A	Blinking	N/A	N/A	Blinking	N/A	N/A
AST Sensor	N/A	Blinking	Blinking	N/A	Blinking	N/A	N/A
Pressure Alarm	N/A	Blinking	Blinking	N/A	N/A	N/A	N/A
MM Low Flow	N/A	Blinking	Blinking	N/A	N/A	N/A	Blinking
Lock Alert	N/A	N/A	N/A	N/A	N/A	Flashing	N/A
Battery Alert	Battery Icon ON	N/A	N/A	N/A	N/A	N/A	N/A

1 - All alarms are classified as Medium Priority per IEC 60601-1-8

- 2 Blinking = every 2 seconds
- 3 Flashing = 10 times per second

OPERATORS POSITION

The operator is intended to be standing directly in front of the Pump during operation.

SILENCING AN ALARM

Pressing the **ALARM SILENCE** Key disables Alarm sounds. The **ALARM SILENCE** LED will be on. The ALARM SILENCE will end if any of the following conditions occur:

- The power fails or the cord is disconnected
- 10 minutes have elapsed since an alarm was silenced
- No alarms are active
- The ALARM SILENCE key is pressed again
- The Power key is pressed

POWER FAIL CONDITIONS

A power fail condition can occur under three cases:

- Plug detached from the power outlet
- Power outage has occurred
- Fuse has blown

OPERATION DURING POWER FAILURE

During a power fail condition, the LCD is off, the Alarm and Power LEDs are blinking, and the air cells will not inflate/deflate (no therapy will be delivered). During this time, the air cells will remain inflated for at least two (2) hours.

SHORT POWER INTERRUPTIONS

All therapy modes, pressures and settings are retained after a power fail condition that lasts less than 30 seconds.

If the power fail condition lasts for more than 30 seconds the system saves all settings and therapy modes, with the exception of Max Inflate.

The system will return to normal operation after any power failure that lasts less than 30 minutes.

EXTENDED POWER INTERRUPTIONS

If the power failure lasts for more than 30 minutes, the audio and visual power fail indications will stop and the Pump will power off.

If power is restored after thirty (30) minutes, the system will return to the state it was in prior to the power interruption. Therapy mode and settings are retained.



- Disinfect the Pump and Surface between patient installations and when servicing, utilizing standard hospital protocol and disinfectants. Failure to disinfect may risk cross-contamination and infection.
- When disinfecting is required, check disinfectant manufacturer's instructions before use, and use disinfectant and personal protective equipment.
- Use Personal Protection Equipment in accordance with the manufacturer's instructions to reduce the likelihood of cross-contamination during cleaning.
- All disinfection should be done using a "hospital-grade" disinfectant.
- Check patient medical history for allergies to the Suggested Disinfectants listed below

SUGGESTED DISINFECTANTS

- Quaternary Cleaners
- Phenolic Cleaners
- Chlorinated Bleach Solution (5.25% bleach diluted 1 part bleach to 10 parts water)
- 70% Isopropyl Alcohol
- Accelerated Hydrogen Peroxide (AHP)

CLEANING and DISINFECTION of the PUMP

DO NOT spray disinfectant directly on the electrical Pump, or immerse the Pump in any type of liquid. This could result in a severe electrical hazard.

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- DO NOT autoclave the Pump OR the Hosing Assembly. Equipment damage could occur.
- Unplug Pump from its source prior to cleaning. Failure to do so may result in an electrical hazard.
- Do not use harsh cleansers, solvents, or detergents on the Pump. Equipment damage could occur.

The <u>exterior</u> of the Pump and Hosing Assembly should be wiped down between patients. Always inspect Pump components during Preventive Maintenance (**Page 42**) and replace as necessary.

When cleaning and disinfecting the Pump, the following procedure is advised:

- 1. Unplug the power cord prior to cleaning/disinfecting.
- 2. Dampen a clean cloth with disinfectant according to manufacturer's recommendations.
- 3. Wipe down the Pump and Hosing Assembly to remove any foreign material/fluid/dirt.
- 4. Dry completely before using the Pump.

CLEANING and DISINFECTION of the SUPPORT SURFACE

- To avoid the risk of equipment damage, do not immerse support surface in cleaning or disinfectant solutions.
- Do not allow liquid to pool on the support surface.
- To avoid the risk of patient injury, coverlet and shell should be inspected for tears, punctures, excessive wear, and misaligned zippers each time the coverlets are cleaned. If a support surface coverlet becomes compromised, the support surface coverlet should be removed from service immediately and replaced to prevent cross-contamination.
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- Do not use harsh cleansers, solvents, or detergents on the Surface. Equipment damage could occur.
- To avoid the risk of equipment damage, when cleaning the underside of the support surface, ensure that no liquid is allowed to seep into the zipper area or under the watershed cover; fluids allowed to come in contact with the zipper may leak into the support surface.

The useful life of the support surface components (shell, air cells & coverlet) may be shortened by the number of times it is cleaned/disinfected. The number of cleanings/disinfections is "patient-dependent" and it is the responsibility of the caregiver to ensure the support surface is clean and sanitary for the patient, including determining the frequency of cleaning/disinfection. Generally, the presence of foreign material/fluids/odors would indicate the need to clean/disinfect the surface. Always inspect Surface components during Preventive Maintenance (**Page** 41) and replace as necessary.

When cleaning and disinfecting the Support Surface, the following procedure is advised:

1. Using a clean, soft, damp cloth, wipe down the support surface with a mild soap and water solution to remove foreign material.

2. Wipe down the support surface with a clean, dry cloth to remove any excess liquid or cleaning agent.

3. Disinfect with a hospital grade disinfectant AFTER cleaning has been completed. Refer to "Suggested Disinfectants" on **Page 35**.

CLEANING and DISINFECTION AIR CELLS

All Air Cells (AST and Non-AST) can be wiped down and disinfected. The following procedure is advised:

1. Using a clean, soft, damp cloth, wipe down the air cells with a mild soap and water solution to remove foreign material.

2. Wipe down the air cells with a clean, dry cloth to remove any excess liquid or cleaning agent.

3. Disinfect with a hospital grade disinfectant AFTER cleaning has been completed. Refer to "Suggested Disinfectants" on **Page 35.**

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The AST Sensor Cells (light blue, with attached wires) can be wiped down, *but not laundered*. Equipment damage could occur.

LAUNDERING of NON-AST AIR CELLS

The Non-AST Air Cells (dark blue without wires) may be laundered. The following procedure is advised:

- 1. Remove Non-AST air cells to be laundered. See under Air Cell Replacement (**Page 38**) for instructions.
- 2. Cap the air cell connectors with Air Cell Laundry Caps (2940-002-062) as shown.
- Launder at a maximum water temperature of 60°C using standard hospital grade laundry detergents. DO NOT ADD CHLORINE BLEACH.



4. The air cells may be air dried or machine dried at a temperature not to exceed 60°C.

Air Cells may be laundered as many as 25 times over the life of the product.

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 Cap the air cell connectors before laundering. Failure to cap the connectors will lead to liquid ingress inside of the air cell and the risk of damage or mold growth through incomplete drying.

LAUNDERING of the COVERLET

When Laundering the Coverlets, the following procedure is advised:

- 1. Coverlets can be machine washed at a maximum water temperature of 70°C using standard hospital grade laundry detergents. **DO NOT ADD CHLORINE BLEACH WHEN LAUNDERING.**
- 2. Coverlets can be air dried or machine dried at temperatures not to exceed 75°C.

Laundering can be performed up to 130 times over the life of the product.

NOTE! If storing the Support Surface and/or Pump between uses, store according to Storage Conditions presented in the table on **Page 8**.

For service and/or technical information other than specified in this manual, including fuse replacement, circuit diagrams and isolation of mains, see IsoAir Service Manual *AO-SM-70-SR*.

- There are no "user-serviceable" parts inside the Pump. Service should only be performed by authorized maintenance personnel only. Equipment damage could occur.
- Disinfect the Pump and Hosing Assembly between patient installations and before servicing, use standard hospital protocol and disinfectants. Failure to disinfect may risk cross-contamination and infection.

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- Do not service or perform maintenance while product is in use. May cause harm to the patient.
- Do not return a Pump for any reason without first contacting Customer Service to obtain authorization.
- Consult your local regulations to properly dispose of electronic equipment.
- Do not dispose of as unsorted municipal waste. See your local distributor for return or collection systems available in your country.

BATTERY

The battery is only for visual and audible alarming during power failure. It does not power the Pump for therapy purposes. It is not user-serviceable and must only be serviced by authorized service personnel. The typical service life of the battery is the life of the device. The system recharges the battery when the device is connected to a power outlet and power is available.

AIR CELL REPLACEMENT

Tools/Parts Required:

- Non-AST Aircell (2940-002-033)
- Air Plug Assembly (2940-002-001)

Procedure:

- 1. Unzip and remove the coverlet.
- 2. Identify the air cell to be replaced.
- 3. Disconnect the air cell from the manifold connector.



4. Cap the manifold connector (Air Plug Assemblies are stored in the pocket inside the Surface at the foot end of the bed).



AIR CELL REPLACEMENT (Continued)

5. Unbutton both sides of the air cell.





- 6. Slide the air cell out of the restraining loops.
- 7. Insert the new air cell through the loops.



- 8. Button both sides of the new cell.
- 9. Uncap the manifold connector and connect the new air cell.
- 10. Place Air Plug Assemblies back into shell pocket.
- 11. Inflate and verify air cell properly inflates.
- 12. Re-zip the coverlet.

CLEANING PUMP FILTER

Good filter maintenance is critical in keeping your IsoAir[™] Pump in optimal operating condition. Failure to clean the filter may cause damage to the Pump. The damaged Pump may not provide proper support pressures resulting in patient injury.

Tools/Parts Required:

- Flat-bladed screwdriver
- Air Filter (2940-002-052)

Procedure:

The Pump filter should be checked every 30 days. If dirty, the filter can be dusted or vacuumed without removal. The filter may also be periodically removed and washed, or replaced as follows:

- 1. Unplug the electronic Pump.
- 2. Open the filter grill cover and remove the filter. This can be gently pried open using a flat-bladed screwdriver or similar from the opposite side to the hinge. The filter cover will swing open. DO NOT unscrew the filter assembly.
- 3. Clean the filter by washing in a mild detergent and allow to air dry. If replacing with a new filter discard instead of washing.
- 4. Insert the new or cleaned filter back into the filter housing and replace the grill cover.

If the filter cannot be cleaned or becomes damaged, contact Stryker Customer Service for information, see Page 9.

SUPPORT SURFACE COVERLET REPLACEMENT

Tools/Parts Required:

- Replacement Coverlet (2940-002-036)

Procedure:

- 1. Raise the bed height to the full up position.
- 2. Lower the fowler and gatch sections to the full down positions.
- 3. Unzip both zippers on the coverlet. Start at the foot end of the support surface and stop at the head end.
- 4. Attach the new coverlet by starting both zippers at the head end.
- 5. Zip the coverlet to close. Start at the head end and stop at the foot end.
- 6. Make sure the new coverlet aligns properly with the support surface.

PREVENTIVE MAINTENANCE OF THE SUPPORT SURFACE

DO NOT service or perform maintenance while the product is in use. May result in patient injury.

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 the level of patient usage and the number of times the Surface is cleaned/disinfected. Service should only be performed by qualified personnel.

Remove product from service before you perform preventive maintenance inspection.

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

CHECKLIST

- Inspect coverlet; if tears, rips, holes, cracks, or excessive wear are observed, it is strongly recommended to replace the coverlet
- _____ Verify that the coverlet zipper opens and closes properly and has no visible damage.
- _____ Unzip coverlet to view the air cells; inspect the air cells and the bolster to ensure that there are no holes, cracks or signs of excessive wear. Replace as required.
- _____ Inspect fire barrier for rips, cracks or excessive wear.
- _____ Check labels as specified in this manual (Page 43) for legibility, proper adherence, and integrity.
- _____ Inspect handles and stitching to ensure that there are no rips or cracks.
- _____ Inspect hose sleeve for tears, rips or damage.
- _____ Inspect surface straps and ensure that they are intact and are not damaged.
- _____ During installation, confirm that straps properly secure the support surface assembly to the bed frame.

SERIAL NUMBERS

System Component	Serial Number
Support Surface	
Coverlet	

MAINTENANCE RECORD

Completed By	Date

PREVENTIVE MAINTENANCE OF THE PUMP

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Electrical safety testing of the Pump should be performed at least annually. Failure to do so may result in death or injury. Contact Stryker Customer Service for information, see **Page 9**.

Preventive maintenance should be performed annually, at a minimum. A preventive maintenance program should be established for all Stryker Medical equipment. Preventive maintenance may need to be performed more frequently based on the level of usage and the number of times the Pump is cleaned/disinfected. Use this sheet for your records and keep on file.

CHECKLIST

- _____ Verify that there are no cracks, holes or damages on the Pump Housing, or its components (Hoses, Power Cord, and Case)
- _____ Verify the hooks used to hang the Pump on the bed frame are intact and not damaged.
- _____ Verify the POWER Key is working properly.
- While in operation, verify there are no air leaks from the Pump or the attached connectors/hosing.
- _____ Check Air Filter (See Page 40).

SERIAL NUMBERS

System Component	Serial Number
Air Pump	

MAINTENANCE RECORD

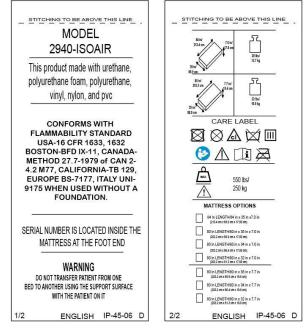
Completed By	Date

Support Surface Labels

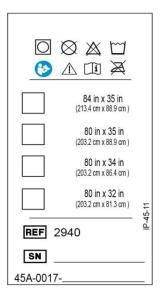
Labels attached to the Support Surface are shown below are:

(Images are representative, actual labels may vary.)

1) Care Label



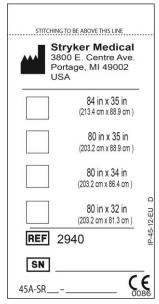
2) Coverlet Label



4) Shell Pocket - Choking Hazard Label:



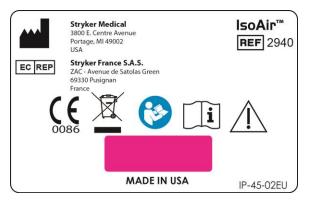
3) Shell Label



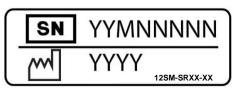
Pump Labels

Labels attached to the Pump are shown below are: (Images are representative, actual labels may vary.)

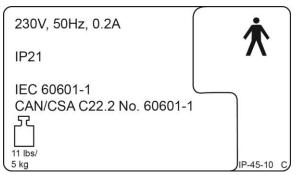
1) Manufacturer Label:



2) Part & Serial Number Label:



3) Control Data Label:



3) Stryker Name Label:



4) Fuse Label:

F 1,6AH, 250V	
5x20 mm	IP-P10509-2
	11 1 10509 2

Hosing/Tubing Assembly and Power Cord Labeling

Labels attached to the hosing/tubing assembly & the power cords are shown below: (Images are representative, actual labels may vary.)

1) CPR Hose Label:



2) Power Cord Label:



The parts and accessories listed on this page are currently available for purchase. Some of the parts identified on the assembly drawing in this manual may not be individually available for purchase. Please call *Stryker Customer Service* at **1-800-327-0770** for availability and pricing.

Stryker Part Number	Part Description	
2940-002-101	Kit, Controller, Power Cord, EU	
2940-002-104	Kit, Controller, Power Cord, UK/IR	
2940-002-105	Kit, Controller, Power Cord, AUS/NZ	
2940-002-106	Kit, Controller, Power Cord, SW	
2940-001-204	Power Cord, 5 m, UK/IR, G	
2940-001-202	Power Cord, 5 m, EU, E/F	
2940-001-208	Power Cord, 5 m, SW, J	
2940-001-206	Power Cord, 5 m, AUS/NZ, I	
2940-002-052	Air Filter	
2940-002-001	Assembly, Air Plug	
2940-002-062	Cap, Air Cell Laundry	
2940-002-033	Non-AST Air Cell, 35x5.5	
2940-002-032	Non-AST Air Cell, 32x5.5	
2940-002-016	Non-AST Air Cell, 35x8	
2940-002-015	Non-AST Air Cell, 32x8	
2940-002-034	Coverlet, 32x80	
2940-002-035	Coverlet, 35x80	

GUIDANCE AND MANUFACTURER'S DECLARATION – ELECTROMAGNETIC EMISSIONS

Guidance and Manufacturer's Declaration – Electromagnetic Emissions The IsoAir™ 2940 is intended for use in the electromagnetic environment specified below. The customer or the user of the IsoAir™ 2940 should assure that it is used in such an environment.		
Emissions Test	Compliance	Electromagnetic Environment – Guidance
RF emissions CISPR 11	Group 1	The IsoAir [™] 2940 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	
Harmonic emissions IEC 61000-3-2	Class A	The IsoAir™ 2940 is suitable for use in all establishments other than domestic and those directly connected to the public low-voltage power
Voltage fluctuations/ flicker emissions IEC 61000-3-3	Complies	supply network that supplies buildings used for domestic purposes.

GUIDANCE AND MANUFACTURER'S DECLARATION – ELECTROMAGNETIC IMMUNITY

Guidance and Manufacturer's Declaration – Electromagnetic Immunity				
The IsoAir [™] 2940 is intended for use in the electromagnetic environment specified below. The customer or the user of the IsoAir [™] 2940 should assure 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	± 6 kV contact ± 8 kV air	± 6 kV contact ± 8 kV air	Floors should be wood, concrete, or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30 %.	
Electrical fast transient/burst IEC 61000-4-4	± 2 kV for power supply lines ± 1 kV for input/output lines	± 2 kV for power supply lines ± 1 kV for input/output lines	Mains power quality should be that of a typical commercial or hospital environment.	
Surge IEC 61000-4-5	± 1 kV line(s) to line(s) ± 2 kV line(s) to earth	± 1 kV line(s) to line(s) ± 2 kV line(s) to earth	Mains power quality should be that of a typical commercial or hospital environment.	
Voltage dips, short interruptions and voltage variations on power supply input lines $\langle 5 \% U_{T}$ $(>95 \% dip in U_{T})for 0,5 cycle\langle 5 \% U_{T}(>95 \% dip in U_{T})for 0,5 cycleMains power quality should be that of a typicalcommercial or hospital environment. If the userthe lsoAir TM 2940 requires continued operationduring power mains interruptions, it isrecommended that the lsoAir TM 2940 be power$			Mains power quality should be that of a typical commercial or hospital environment. If the user of the IsoAir™ 2940 requires continued operation	
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 or hospital environment.	
NOTE U_T is the a.c. mains voltage prior to application of the test level.				

GUIDANCE AND MANUFACTURER'S DECLARATION – ELECTROMAGNETIC IMMUNITY - NOT LIFE-SUPPORTING

Conducted RF IEC 61000-4-6 $3 V_{RMS}$ $150 \text{ kHz to 80 MHz}$ $V_1 = 3 V_{RMS}$ Recommended separation distance calculated from the equation applicable to the frequency the transmitter.Radiated RF IEC 61000-4-3 $3 V/m$ $80 \text{ MHz to 2.5 GHz}$ $E_1 = 3 \text{ V/m}$ $E_1 = 3 \text{ V/m}$ $d = \left[\frac{3.5}{E_1}\right]\sqrt{P}$ $800 \text{ MHz to 800 MHz}$ $d = \left[\frac{7}{E_1}\right]\sqrt{P}$ $800 \text{ MHz to 2.5 GHz}$ 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 Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey		Guidance and Manufa	acturer's Declaration – Ele	ectromagnetic Immunity	
Immunity TestIEC 60601 Test LevelCompliance LevelElectromagnetic Environment – Guidant Portable and mobile RF communications equipment should be used no closer to any po of the IsoAir™ 2940, including cables, than th recommended separation distance calculated from the equation applicable to the frequency the transmitter.Conducted RF IEC 61000-4-6 $3 V_{RMS}$ $150 \text{ KHz to 80 MHz}$ $V_i = 3 V_{RMS}$ $E_i = 3 V/m$ Recommended separation distance $d = \begin{bmatrix} \frac{15}{V_i} \end{bmatrix} \sqrt{P}$ Radiated RF IEC 61000-4-3 $3 V/m$ $80 \text{ MHz to 2.5 GHz}$ $E_i = 3 V/m$ Recommended separation distance $d = \begin{bmatrix} \frac{15}{V_i} \end{bmatrix} \sqrt{P}$ $d = \begin{bmatrix} \frac{1}{2} \\ V_i \end{bmatrix} \sqrt{P}$ $80 \text{ MHz to 2.5 GHz}$ $E_i = 3 V/m$ $d = \begin{bmatrix} \frac{15}{V_i} \end{bmatrix} \sqrt{P}$ $d = \begin{bmatrix} \frac{15}{V_i} \end{bmatrix} \sqrt{P}$ $80 \text{ MHz to 2.5 GHz}$ $Where P$ is the maximum output power rating the transmitter in watts (W) according to the transmitter in mantfacturer and d is the erecommended separation distance in metersNOTE 1At 80 MHz and 800 MHz, the higher frequency range applies.Interference may occur in the vicinity of equipment marked with the following symbol:NOTE 2These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects, and people.aField strengths from fixed transmitters, such as base stations for radio (cellular/cordess) telephones and land mobile radios, amateur radio. AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. T assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be less than a transmitters, such as base stations for radio (cellular/cordess) telephones a					
Conducted RF IEC 61000-4-33 VRMS 150 KHz to 80 MHz $V_{I} = 3 V_{RMS}$ $E_{I} = 3 V/m$ Portable and mobile RF communications equipment should be used no closer to any prior of the IsoAir TM 2940, including cables, than th recommended separation distance calculated from the equation applicable to the frequency the transmitter.Conducted RF IEC 61000-4-3 $3 V_{RMS}$ $150 KHz to 80 MHz$ $V_{I} = 3 V_{RMS}$ $E_{I} = 3 V/m$ Recommended separation distance $d = [\frac{35}{V_{L}}]\sqrt{P}$ $d 0 MHz to 800 MHz to 800 MHzIEC 61000-4-33 V/m80 MHz to 2.5 GHzE_{I} = 3 V/md = [\frac{35}{V_{L}}]\sqrt{P}d 0 MHz to 2.5 GHzWhere P is the maximum output power ratingthe transmitter in watts (W) according to thetransmitter manufacturer and d is therecommended separation distance in meters.NOTE 1At 80 MHz and 800 MHz, the higher frequency range applies.NOTE 2These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption andreflection from structures, objects, and people.aField strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobileradios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. Tassess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site surveyshould be used seveed to verify normal operation. If abnormal performance isand people.$					
Conducted RF IEC 61000-4-6 Rediated RF IEC 61000-4-33 V _{RMS} 150 kHz to 80 MHz 80 MHz to 2.5 GHz $V_1 = 3 V_{RMS}$ $E_1 = 3 V/m$ $d = \begin{bmatrix} \frac{3.5}{k_1} \end{bmatrix} \sqrt{P}$ 80 MHz to 800 MHz $d = \begin{bmatrix} \frac{7}{k_1} \end{bmatrix} \sqrt{P}$ 80 MHz to 800 MHz $d = \begin{bmatrix} \frac{7}{k_1} \end{bmatrix} \sqrt{P}$ 80 MHz to 2.5 GHzWhere P is the maximum output power rating the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in meters Field strengths from fixed RF transmitters, and determined by an electromagnetic site survey should be less than the compliance level in eat requency range.NOTE 1At 80 MHz and 800 MHz, the higher frequency range applies.NOTE 2These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects, and people.aField strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM eff Mr and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy.TaField strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM eff Mr and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy.TaField 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.TaField 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 pre				Portable and mobile RF communications equipment should be used no closer to any part of the IsoAir [™] 2940, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.	
 BO MHz to 2.5 GHz BO MHz to 2.5 GHz Ei = 3 V/m d = [x/k₁] √P BO MHz to 2.5 GHz d = [x/k₁] √P BO MHz to 2.5 GHz where P is the maximum output power rating the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in meters Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey should be less than the compliance level in ear frequency range.^b Interference may occur in the vicinity of equipment marked with the following symbol: (w) WOTE 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 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. T assess the electromagnetic environment due to fixed RF transmitters and electromagnetic site survey should be considered. If the measured field strength in the location in which the IsoAir™ 2940 should be considered to verify normal operation. If abnormal performance is 			$V_1 = 3 V_{\rm RMS}$		
Image: Second secon			$E_1 = 3 \text{ V/m}$	*	
a Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. T 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 IsoAir™ 2940 is used exceeds the applicable RF compliance level above, the IsoAir™ 2940 should be observed to verify normal operation. If abnormal performance is					
a Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. T 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 IsoAir™ 2940 is used exceeds the applicable RF compliance level above, the IsoAir™ 2940 should be observed to verify normal operation. If abnormal performance is				Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, ^a should be less than the compliance level in each frequency range. ^b	
 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 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. T 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 IsoAir™ 2940 is used exceeds the applicable RF compliance level above, the IsoAir™ 2940 should be observed to verify normal operation. If abnormal performance is 				equipment marked with the following symbol:	
 ^a Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. T 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 IsoAir™ 2940 is used exceeds the applicable RF compliance level above, the IsoAir™ 2940 should be observed to verify normal operation. If abnormal performance is 	NOTE 1 At 80 MH	Iz and 800 MHz, the higher fr	equency range applies.		
radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. T 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 IsoAir™ 2940 is used exceeds the applicable RF compliance level above, the IsoAir™ 2940 should be observed to verify normal operation. If abnormal performance is				c propagation is affected by absorption and	
	radios, amateur assess the elec considered. If th compliance leve	radio, AM and FM radio broa tromagnetic environment due ne measured field strength in el above, the IsoAir™ 2940 sh	dcast and TV broadcast c to fixed RF transmitters, a the location in which the Is nould be observed to verify	annot be predicted theoretically with accuracy. To an electromagnetic site survey should be soAir™ 2940 is used exceeds the applicable RF r normal operation. If abnormal performance is	
^b Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.	^b Over the freque	ency range 150 kHz to 80 MHz	z, field strengths should be	e less than 3 V/m.	

GUIDANCE AND MANUFACTURER'S DECLARATION – RECOMMENDED SEPARATION DISTANCES BETWEEN PORTABLE AND MOBILE RF COMMUNICATIONS EQUIPMENT AND THE IsoAir™ 2940

Recommended Separation Distances Between Portable and	d
Mobile RF Communications Equipment and the IsoAir [™] 294	10

The IsoAir[™] 2940 is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the IsoAir[™] 2940 can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the IsoAir[™] 2940 as recommended below, according to the maximum output power of the communications equipment.

Detect Marine Detect	Separation Distance According to Frequency of Transmitter (in meters)			
Rated Maximum Output Power of Transmitter (in Watts)	150 kHz to 80 MHz $d = \left[\frac{3.5}{V_1}\right]\sqrt{P}$	80 MHz to 800 MHz $d = \left[\frac{3.5}{E_1}\right]\sqrt{P}$	800 MHz to 2.5 GHz $d = \left[\frac{7}{E_1}\right]\sqrt{P}$	
0.01	0.12	0.12	0.23	
0.1	0.37	0.37	0.74	
1	1.2	1.2	2.3	
10	3.7	3.7	7.4	
100	12	12	23	

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

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

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

LIMITED WARRANTY

The Stryker IsoAir[™] System has a warranty of **TWO (2) YEARS** under normal use, conditions, and with appropriate periodic maintenance as described in this manual.

This statement constitutes Stryker's entire warranty with respect to the aforesaid equipment. Stryker makes no other warranty or representation, either expressed or implied, except as set forth herein. There is no warranty of merchantability and there are no warranties of fitness for any particular purpose. In no event shall Stryker be liable here under for incidental or consequential damages arising from or in any manner related to sales or use of any such equipment.

CONDITIONS AND LIMITATIONS

This statement constitutes Stryker's entire warranty with respect to the aforesaid equipment. Stryker makes no other warranty or representation, either expressed or implied, except as set forth herein. There is no warranty of merchantability and there are no warranties of fitness for any particular purpose. This warranty does not extend to, nor cover:

- Normal wear and tear; or
- Damage or product failure due to causes beyond Stryker's control such as, but not limited to abuse, theft, fire, flood, wind, lightning, freezing, clogging of support surface pores due to tobacco smoke, unusual atmosphere conditions, material degradation due to exposure to moisture; or
- Damage to support surface or support surface handles through the use of the support surface for patient transfer or transport.

Normal use is defined as normal hospital or facility usage. Damages arising from abnormal use such as those caused by needle punctures, burns, chemicals, negligent use or improper care or improper cleaning or staining resulting from it are exempt from warranty coverage.

TO OBTAIN PARTS AND SERVICE

Stryker products are supported by a 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**.

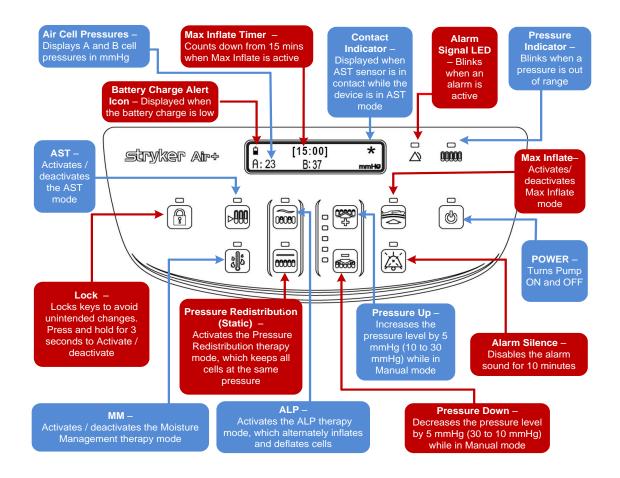
RETURN AUTHORIZATION

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

DAMAGED MERCHANDISE

ICC Regulations require that claims for damaged merchandise must be made with the carrier within fifteen (15) days of receipt of merchandise. **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. Claim 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 merchandise, 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. Claims for any short shipment must be made within thirty (30) days of invoice.

ISOAIRTM QUICK REFERENCE GUIDE \bigotimes Λ



ISOAIR™ QUICK REFERENCE GUIDE 🔮 🛕



Alarms / Alerts (In Order of Notification Priority)	Symptoms	Recommended Action ⁴
1. Power Failure - The controller is not receiving power due to a power outage, disconnected power cord, blown fuse, or possible internal damage.	 Controller does not turn on. Support surface does not inflate Keys not responding Alarm Signal LED blinks and Power Key LED blinks². 	 Make sure the power cord is plugged in, mains AC power is ON and the Power LED is lit (white for standby, green for unit turned on).
2. Hardware Failure - The controller has detected an internal hardware failure.	 Alarm Signal LED blinks and Power Key LED continuously lit. 	 Cycle power
3. Stuck Key - The controller has detected that a key has been activated for more than 15 seconds.	 Keys not responding Alarm Signal LED blinks² and LED for affected stuck key flashes³ 	 Press and release the key with the flashing LED to clear the stuck key.
4. AST Connection Error - The controller has detected that the AST cable is disconnected.	 Alarm Signal LED blinks² and AST Key LED blinks 	 Check that the AST plug is completely inserted into the AST socket. Toggle the AST key (OFF/ON) to see if condition clears.
 AST Sensor – The AST Sensor remains in contact for more than 15 minutes while operating in AST mode. 	 Alarm Signal LED blinks², AST Key LED blinks and Pressure Indicator LED blinks 	 If patient is in fowler, reduce HOB angle. Unzip cover and check that AST air cells are correctly positioned underneath patient. Perform a hand check to ensure that the patient is not bottoming out.
6. Pressure Alarm - A high or low pressure condition exists in a support cell or bolster.	 Alarm Signal LED blinks² and Pressure Indicator LED blinks 	 Check that the CPR connector is correctly plugged into the controller. Check for kinks in tubes from the CPR connector to the support surface. Unzip the mattress cover, check air cells, tubing and connections for possible leaks.
 MM Low Flow – flow is below minimum expected threshold for 5 seconds. 	 Alarm Signal LED blinks², the MM Key LED blinks and the Pressure LED blinks 	 Unzip the mattress cover. Check for air flow blockage along the MM hoses inside the mattress (See Page 16).
8. Lock Alert - A key is pressed while the LOCK function is active.	 Keys not responding Lock Key LED flashes³ 	 If required, deactivate the LOCK function by pressing and holding the LOCK key for 3 seconds.
9. Battery Fault Alert - A fault with the battery was detected.	 Battery icon is displayed on LCD 	 Ensure power is connected for at least five hours.

1 - All alarms are classified as Medium Priority per IEC 60601-1-8

2 - Blinking = every 2 seconds

3 - Flashing = 10 times per second

4 - If alarm condition persists, contact Stryker Customer Service

Stryker Customer Service - 1-800-327-0770



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