Operating and Maintenance Manual

Scout and Sentinel Vacuum Regulators

Amico

Models

SXY-ZZXY-ZZ(X)*

Series	Display	Vacuum Regulator Type	Color Coding	Patient Connection	Inlet Connection	**Color Coding
R = Scout	A = Analog	CI = Continuous/Intermittent	U = USA	2 = 1/8" FNPT	F2 = 1/8" FNPT	R = Red
S = Sentinel	D = Digital	C2 = Continuous 2 Mode	I = ISO	D = DISS Male	DH = DISS Handtight	B = Blue
		C3 = Continuous 3 Mode		T = Tubing Nipple	DN = DISS Nut	G = Green
		CH = Continuous High/Surgical		V = 1/8" NPT Vacuum Trap Connection	OM = Ohmeda Male	P = Purple
		PI = Pediatric/Intermittent		H = DISS Handtight Vacuum Trap Connection	CM = Chemetron Male	Y = Yellow
		P2 = Pediatric 2 Mode		N = DISS Nut Vacuum Trap Connection	PB = Puritan Bennett	N = Pink
		NI = Neonatal/Intermittent			MS = Medstar	Z = Baby Blue
		N2 = Neonatal 2 Mode			OX = Oxequip	
					BM = British Male	
					GM = German Male (DIN)	
					FM = French Male	
					DO = Locking DISS Nut	

* For MR Conditional, please add "-M" to the end of the part number (available for Adult and Analog units only)

** If no color is specified: White is the standard for all Scout and Sentinel vacuum regulators

User Responsibility

CAUTION: United States federal law restricts this device to sale by or on the order of a physician.

READ ALL INSTRUCTIONS BEFORE USING

This manual instructs a professional to install and operate the Vacuum Regulator. This is provided for your safety and to prevent damage to the Vacuum Regulator. If you do not understand this manual, **DO NOT USE** the Vacuum Regulator and contact your provider.

Symbols Glossary

WARNING - Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION - Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

CAUTION - Used without the safety alert symbol (⚠) indicates a potentially hazardous situation, which, if not avoided, may result in property damage.

Manufacturer - Indicates the medical device manufacturer (ISO 15223-1 5.1.1).

REF Catalog Number - Indicates the manufacturer's catalogue number so that the medical device can be identified (ISO 15223-1 5.1.6).

SN Serial Number - Indicates the manufacturer's serial number so that a specific medical device can be identified (ISO 15223-1 5.1.7).

For pediatric/neonatal use.

For pediatric/neonatal use.

MR MR Conditional - An item with demonstrated safety in the MR environment within defined conditions (ASTM F2503-23).

Rx Only By prescription only.

Receiving Inspection

Remove the Vacuum Regulator from the packaging and inspect it for damage. If there is any damage, **DO NOT USE** and contact your provider.

Specifications

Vacuum Regulator Model	Gauge	Gauge Accuracy	
		Analog	Digital
Continuous / Intermittent	0 – 300 mmHg	± 3% F.S.*	± 1% F.S.*
Continuous High	0 – 750 mmHg	± 3% F.S.*	± 1% F.S.*
Pediatric Continuous Intermittent	0 – 160 mmHg	± 3% F.S.*	± 1% F.S.*
Neonatal Continuous Intermittent	0 – 100 mmHg	± 3% F.S.*	± 1% F.S.*

*F.S. = Full Scale

Vacuum Ports: 1/8" NPT Female

Modes: REG (Regulated) – provides an adjustable, continuous vacuum level

OFF – no vacuum

INT (Intermittent) – provides an adjustable vacuum level that cycles between REG and OFF

FULL - provides full vacuum

Intermittent Cycle Time: Factory set at approximately 16 seconds ON and 8 seconds OFF (for reference only). Cycle starts in OFF time.

Operating Environmental Limits: 55°F to 85°F (13°C to 29°C)

Storage Environmental Limits: -4°F to 140°F (-20°C to 60°C). Max 95%, Non-condensing

Standard Flow Rate: 0 - 70 LPM

Pediatric/Neonatal Flow Rate: 0 - 40 LPM

MRI Safety Summary

THIS SECTION APPLIES TO MR CONDITIONAL LABELED SCOUT VACUUM REGULATORS ONLY.

Devices with this label indicates that it is MR Conditional and can be used in an MR Environment.

All products identified as MR Conditional have been observed to maintain proper functionality during exposure to static magnetic fields of not less than 300 Gauss in the fringe field area of a 3.0 Tesla MRI system.

As per ASTM F2052, the largest deflection measurement across all devices tested yield allowable maximum spatial gradients of 8.93 T/m (893 gauss/cm) for 1.5 T systems, and 4.46 T/m (446 gauss/cm) for 3.0 T systems.

MRI Safety Summary

WARNING:

- This product should not be used directly inside of the MR System (e.g., inside the bore of the scanner).
- The device must be securely attached to a wall Gas Outlet.
- To ensure MR compatibility, only adapters and fittings tested and designated by Amico Patient Care for the configurations listed as MR conditional should be used. Any substitution or change must be evaluated in accordance with your hospital policy.
- Device must be kept MR Conditional if serviced or replaced.
- This information must be kept with the device.

Intended Use

Scout and Sentinel Vacuum Regulators are intended to be used in a medical facility to aspirate, remove, or sample body fluids. Do not use the device other than its intended use.

WARNING: DO NOT use this Vacuum Regulator for anything other than its intended use. Personal injury and/or damage to the Vacuum Regulator may result from misuse.

WARNING: Only personnel instructed and trained in its use should operate this Vacuum Regulator.

MRI WARNING: This device contains magnetic, ferrous material that may affect the result of an MRI.

MR Conditional options are available. Please contact customer service at sot-csr@amico.com.

Operating Instructions

CAUTION: Inspect the Vacuum Regulator for visual damage before use. **DO NOT USE** if damaged.

NOTE: Overflow protection should be used with the Vacuum Regulator (e.g., Filter, Vac Trap, Canister equipped with float shutoff).

1. Turn the Selector Switch to the OFF position.
2. Attach the Vacuum Regulator to the Vacuum Source.

REG Mode (**Regulated Mode**) – allows user to set a continuous vacuum level.

a. Turn the Selector Switch to the REG position.

b. Block the Bottom Port of the Vacuum Regulator or kink the vacuum tubing.

c. Using the Regulator Knob, set the desired vacuum level:

- To **INCREASE** vacuum level, turn knob **CLOCKWISE**
- To **DECREASE** vacuum level, turn knob **COUNTERCLOCKWISE**

CAUTION: Do not continue to turn the Regulator Knob once resistance is felt. Doing so could damage the Vacuum Regulator.

INT Mode (**Intermittent Mode**) SELECT MODELS ONLY – vacuum cycles ON and OFF automatically at a fixed interval.

a. Follow REG Mode steps a, b and c to set desired vacuum level.

b. Turn the Selector Switch to the INT position.

NOTE: Intermittent cycles start in the OFF phase; therefore, a delay occurs before the intermittent cycle begins.

FULL Mode (**Full Vacuum Mode**) SELECT MODELS ONLY – regulator is bypassed to achieve maximum vacuum.

a. Turn Selector Switch to the FULL position.

b. Block the Bottom Port of the Vacuum Regulator or kink the vacuum tubing to see the full vacuum reading.

NOTE: Full vacuum can only be as high as the supply vacuum. If full vacuum is low, check the supply vacuum.

3. Turn the Selector Switch to the OFF position to turn the Vacuum Regulator off when not in use.

WARNING: ALWAYS make sure to connect the Vacuum Regulator to the Vacuum Source only. Connection to a Pressure Source could injure the patient or operator and damage the equipment.

WARNING: ALWAYS confirm the vacuum setting prior to performing procedures.

WARNING: When turning the Vacuum Regulator to REG or INT from any position, the vacuum level will return to its previously regulated setting.

CAUTION: DO NOT operate the Vacuum Regulator when the Collection Canister is **full**. This may cause loss of vacuum and damage to the Vacuum Regulator. This will **void the warranty**.

Procedures Prior to Use

WARNING: The following tests are recommended **prior to use on each patient**. If the Vacuum Regulator does not pass one or more of the following tests, it should be evaluated, repaired and/or replaced by a qualified individual.

REGULATOR TESTING:

The following tests must be done with a minimum supply vacuum of -53 kPa (-400 mmHg):

1. Move the Selector Switch to the OFF position. Turn the Regulator Knob one complete turn in the clockwise direction. Kink the vacuum tubing to block the outlet. There should be no movement of the gauge reading.
2. Move the Selector Switch to the REG position. Turn the Regulator Knob fully in the counterclockwise direction. Kink the vacuum tubing. Again, there should be no movement of the gauge reading.
3. Kink the vacuum tubing and set the regulator as follows:

Standard:	Increase the vacuum to -12 kPa (-90 mmHg)
Pediatric and Neonatal:	Increase the vacuum to -5 kPa (-40 mmHg)

REGULATOR SETTING:

4. Open and close the kinked vacuum tubing slowly to reach various vacuum rates. Ensure that the level of vacuum remains consistent when the vacuum tubing is kinked.

For Intermittent Regulators only:

a. Move the Selector Switch to INT.

b. Kink the vacuum tubing.

c. Timing cycles are approximately 16 seconds ON and 8 seconds OFF.

NOTE: The intermittent mode starts in the OFF phase.

d. Decrease the vacuum level to zero and move the Selector Switch to the OFF position.

RELIEF VALVE TESTING (**FOR PEDIATRIC AND NEONATAL REGULATORS ONLY**)

1. In the REG mode, kink the vacuum tubing and turn the Regulator Knob fully in the clockwise direction to ensure that the vacuum level does not go over -21 kPa (-160 mmHg) for Pediatric, and -13 kPa (-100 mmHg) for Neonatal. The Vacuum Regulator is equipped with a Safety Relief Valve that triggers and emits an audible vibration once the maximum allowable vacuum is reached. To reset the Safety Relief Valve, turn the Regulator Knob counterclockwise to reduce the vacuum level. If the Safety Relief Valve fails to trigger when the maximum allowable vacuum is reached, do not use the Vacuum Regulator and contact your service provider.

NOTE: This feature is only present for the Pediatric and Neonatal models.

SENTINEL CHECK (**FOR SENTINEL REGULATORS ONLY**)

1. On the back of the Vacuum Regulator, press the TEST button using a small screwdriver or allen key and hold for 1 second. The Amber BATT LED will light up. This indicates that the batteries are not dead. If the Red CHECK LED doesn't turn on, this means that the unit is not contaminated.

Cleaning Instructions - Scout

NOTE: Amico Patient Care Corporation highly recommends replacing the Disposable Body to ensure it is completely free of contamination.

CAUTION: Ethylene Oxide is not recommended as a sterilant. Sterilization using an ethylene mixture may cause small surface cracks to some of the plastic parts that may not be readily apparent to the user.

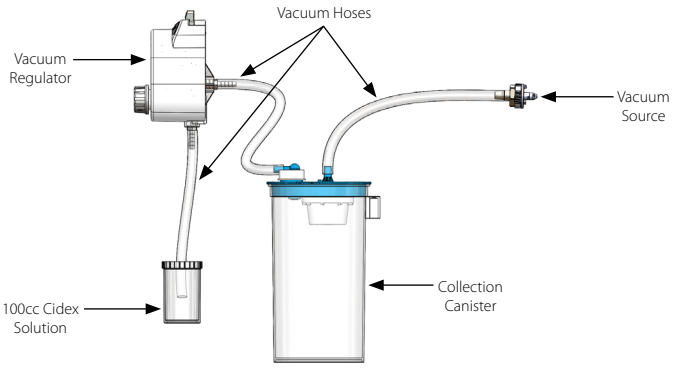
CAUTION: Do not steam autoclave, immerse in liquid or gas sterilize Vacuum Regulators. This may damage the unit.

CAUTION: If the Vacuum Regulator becomes contaminated internally, replace the Disposable Body and follow your facility's procedures for handling contaminated products.

OPTION #1: Reverse Flush with Cidex Solution (see **Figure 1**)

1. Connect the Rear Port of the Vacuum Regulator to the Patient Port of a Collection Canister.
2. Attach the Vacuum Port of the Collection Canister to a Vacuum Source.
3. Connect a hose from the Bottom Port of the Vacuum Regulator and place the other end into a container containing 100cc of a Cidex solution.
4. Fully turn the Regulator Knob of the Vacuum Regulator in the clockwise direction.
5. Turn the Selector Switch to the REG position. Wait until all of the Cidex solution has passed through the Vacuum Regulator. Allow time for the Cidex solution to fully dry.
6. Repeat steps 3-5 for all modes of the Vacuum Regulator.
7. The Vacuum Regulator should run for 60 seconds in each mode with its Bottom Port open to the atmosphere in order to dry internal parts.

Figure 1: Reverse Flush Setup for Scout - Side



Cleaning Instructions - Scout

OPTION #2: Replace the Disposable Body (see **Figure 10**).

1. Remove all **4 Housing Screws** (**#8**) then remove the **Scout Front Housing** (**#1**) from the Assembly.

2. Carefully remove the **Vacuum Gauge** (**#2**) from the Assembly.

3. Remove the **Regulating Module** (**#3**) by turning it clockwise until it is separated from the Assembly. Thoroughly clean the Regulating Module with Cidex solution. Allow time for the Regulating Module to fully dry.

4. For Intermittent Regulators only: Remove the **Intermittent Screw** (**#5**) holding the **Intermittent Module** (**#4**) in place, then carefully separate the Intermittent Module from the Assembly.

5. Remove the **2 Disposable Body Bottom Screws** (**#6.2**), and the **1 Disposable Body Back Screw** (**#6.4**) holding the Assembly together. Carefully separate the **Scout Disposable Body Assembly** (**#6.1**) from the **Scout Back Housing Kit** (**#7**).

6. Remove the **Disposable Body Port Gasket** (**#6.3**).

7. Dispose of the **Disposable Body Port Gasket** (**#6.3**), **Scout Disposable Body Assembly** (**#6.1**), **Disposable Body Back Screw** (**#6.4**) and **Disposable Body Bottom Screws** (**#6.2**), following your facility's procedure for handling contaminated products.

8. Replace with the **Scout Disposable Body Replacement Kit** (**#6**).

9. Place the new **Disposable Body Port Gasket** (**#6.3**) onto the new **Scout Disposable Body Assembly** (**#6.1**) then carefully install back onto the **Scout Back Housing Kit** (**#7**). Ensure that the **Disposable Body Port Gaskets** (**#6.3**) remain in place and create a good seal. Fasten the new **Scout Disposable Body Assembly** (**#6.1)** in place using **1 new Disposable Body Back Screw** (**#6.4**) and **2 new Disposable Body Bottom Screws** (**#6.2**).

10. For Intermittent Regulators only: Carefully install the **Intermittent Module** (**#4**) and fasten it to the Assembly using the **Intermittent Screw** (**#5**).

11. Install the **Regulating Module** (**#3**) by turning it counterclockwise into the corresponding threads on the **Scout Disposable Body Assembly** (**#6.1**).

12. Carefully install the **Vacuum Gauge** (**#2**) into the Assembly.

13. Install the **Scout Front Housing** (**#1**) and tighten all **4 Housing Screws** (**#8**).

Cleaning Instructions - Sentinel

NOTE: Amico Patient Care Corporation highly recommends replacing the Disposable Body to ensure it is completely clean.

NOTE: If the Amber BATT LED does not come on right away when TEST button is pressed, change the batteries.

CAUTION: Ethylene Oxide is not recommended as a sterilant. Sterilization using an ethylene mixture may cause small surface cracks to some of the plastic parts that may not be readily apparent to the user.

CAUTION: Do not steam autoclave, immerse in liquid or gas sterilize Vacuum Regulators. This may damage the unit.

CAUTION: If the Vacuum Regulator becomes contaminated internally, replace the Disposable Body and follow your facility's procedures for handling contaminated products.

CAUTION: Avoid getting the Sensor Assembly wet. The Sensor Assembly is not waterproof and might get damaged.

OPTION #1: Reverse Flush with Cidex Solution (see **Figure 1**)

1. Connect the Rear Port of the Vacuum Regulator to the Patient Port of a Collection Canister.
2. Attach the Vacuum Port of the Collection Canister to a Vacuum Source.
3. Connect a hose from the Bottom Port of the Vacuum Regulator and place the other end into a container containing 100cc of a Cidex solution.
4. Fully turn the Regulator Knob of the Vacuum Regulator in the clockwise direction.
5. Turn the Selector Switch to the REG position. Wait until all of the Cidex solution has passed through the Vacuum Regulator. Allow time for the Cidex solution to fully dry.
6. Repeat steps 3-5 for all modes of the Vacuum Regulator.
7. The Vacuum Regulator should run for 60 seconds in each mode with its Bottom Port open to the atmosphere in order to dry internal parts.
8. Calibrate the unit following steps listed in the "Calibrate/Reset Guide - Sentinel" (**page 15**).

Cleaning Instructions - Sentinel

OPTION #2: Replace the Disposable Body (see **Figure 11**).

1. Remove all **6 Housing Screws** (**#8**) then remove the **Sentinel Front Housing** (**#1**) from the Assembly.

2. Carefully remove the **Vacuum Gauge** (**#2**) from the Assembly.

3. Remove the **Regulating Module** (**#3**) by turning it clockwise until it is separated from the Assembly. Thoroughly clean the Regulating Module with Cidex solution. Allow time for the Regulating Module to fully dry.

4. For Intermittent Regulators only: Remove the **Intermittent Screw** (**#5**) holding the **Intermittent Module** (**#4**) in place, then carefully separate the Intermittent Module from the Assembly.

5. Remove the **2 Disposable Body Bottom Screws** (**#6.2**), and the **1 Disposable Body Back Screw** (**#6.4**) holding the Assembly together. Carefully separate the **Sentinel Disposable Body Assembly** (**#6.1**) from the **Sentinel Back Housing Kit** (**#7**).

6. Remove the **Disposable Body Port Gasket** (**#6.3**).

7. Dispose of the **Disposable Body Port Gasket** (**#6.3**), **Sentinel Disposable Body Assembly** (**#6.1**), **Disposable Body Back Screw** (**#6.4**) and **Disposable Body Bottom Screws** (**#6.2**), following your facility's procedure for handling contaminated products.

8. Replace with the **Sentinel Disposable Body Replacement Kit** (**#6**).

9. Place the new **Disposable Body Port Gasket** (**#6.3**) onto the new **Sentinel Disposable Body Assembly** (**#6.1**) then carefully install back onto the **Sentinel Back Housing Kit** (**#7**). Ensure that the **Disposable Body Port Gaskets** (**#6.3**) remain in place and create a good seal. Fasten the new **Sentinel Disposable Body Assembly** (**#6.1**) in place using **1 new Disposable Body Back Screw** (**#6.4**) and **2 new Disposable Body Bottom Screws** (**#6.2**).

10. For Intermittent Regulators only: Carefully install the **Intermittent Module** (**#4**) and fasten it to the Assembly using the **Intermittent Screw** (**#5**).

11. Install the **Regulating Module** (**#3**) by turning it counterclockwise into the corresponding threads on the **Disposable Body Assembly** (**#6.1**).

12. Carefully install the **Vacuum Gauge** (**#2**) into the Assembly.

13. Install the **Sentinel Front Housing** (**#1**) and tighten all **6 Housing Screws** (**#8**).

14. Calibrate the **Sensor Module** (**#10**) following the steps in the "Calibrate/Reset Guide - Sentinel" (**page 15**).

Recommended Maintenance

The following are the recommended maintenance steps that should be taken after each patient use:

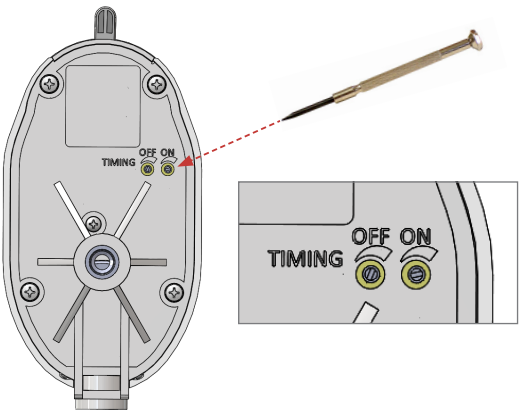
1. Clean the exterior of the Vacuum Regulator with diluted, mild detergent.
2. Make sure that all secondary apparatus, such as canisters and tubing, are new and clean. If a bacteria filter or overflow trap are used, follow your facility's standard procedure for cleaning.
3. For Sentinel only: press the TEST button to test for contamination and battery power (follow the "Procedures Prior to Use - Sentinel Check" on **page 7**).

Instructions for Setting the Intermittent Timing

1. Turn over the Vacuum Regulator so that you are looking at the back of the unit.
2. Connect the Rear Port of the Vacuum Regulator to a Vacuum Source.
3. Occlude the Bottom Port.
4. Switch the Vacuum Regulator to INT mode.
5. The unit will begin in the OFF phase of the intermittent cycle. To increase the off time, turn the OFF needle valve clockwise using a slotted screwdriver. To decrease the off time, turn the OFF needle valve counterclockwise.
6. To increase the on time, turn the ON needle valve clockwise using a slotted screwdriver. To decrease the on time, turn the ON needle valve counterclockwise (see **Figure 2**).

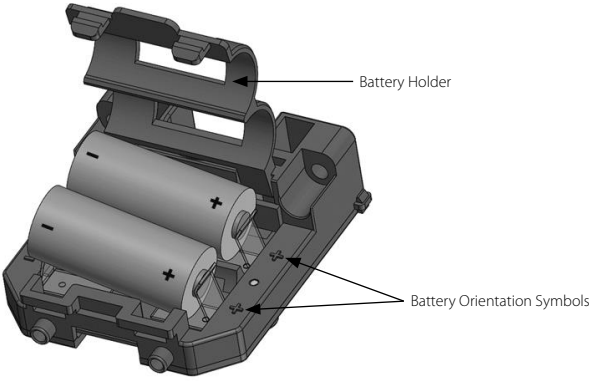
CAUTION: Do not continue to turn the needles once resistance is felt. Doing so could damage the Vacuum Regulator.

Figure 2: Adjusting Intermittent Timing



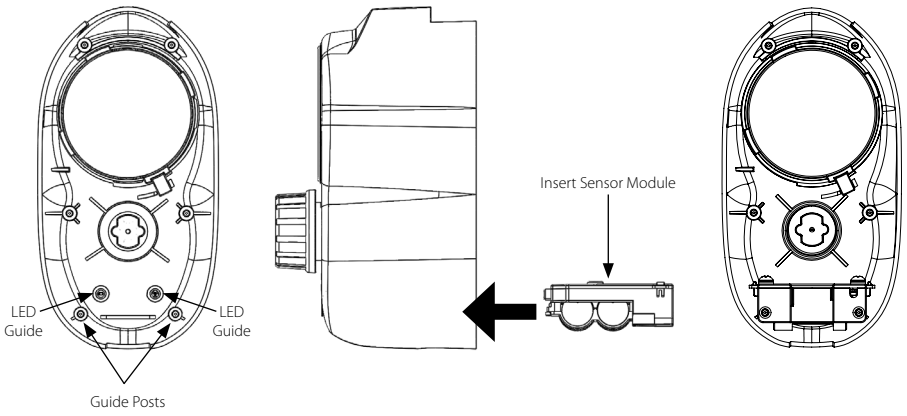
Battery Replacement - Sentinel

Figure 3: Sensor Assembly - Sentinel



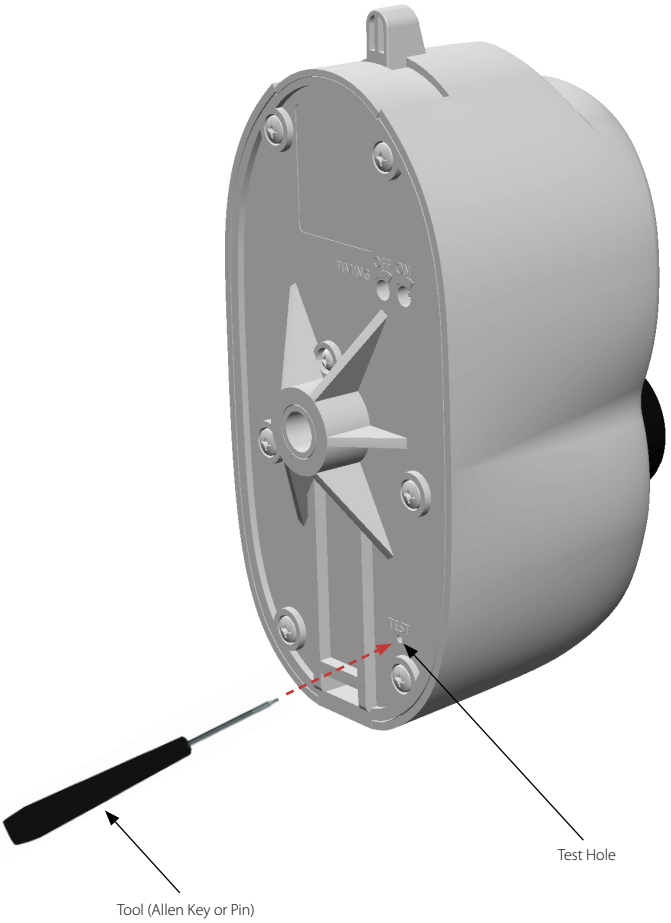
1. Remove all 6 Housing Screws then remove the Front Housing from the Assembly (**Figure 12**).
2. Pull out the Sensor Assembly located in the Front Housing.
3. Lift the Battery Holder by pressing the two tabs with a slotted screwdriver.
4. Install the new batteries following the battery orientation symbols.
5. Reinstall the Sensor Module into the Front Housing:
    a. Assemble the Sensor Module into the Front Housing guide posts (**Figure 4**).
    b. Make sure top of the Sensor Module is seated with the LED guides of the Front Housing.
6. Install the Front Housing on the Assembly and tighten all 6 Housing Screws.
7. Calibrate the Sensor (follow the "Calibrate/Reset Guide - Sentinel" (**page 15**).

Figure 4: Sensor Module Installation



Testing the Battery - Sentinel

Figure 5: Test & Calibration/Reset - Sentinel



TESTING THE BATTERY:

1. Insert the tip of the Tool into the TEST hole and press the button for less than 1 second.
2. Check the LEDs on the front of the Vacuum Regulator. The Amber BATT LED will turn on for approximately 1 second, indicating that the battery is OK.
3. If the BATT LED does not turn on for a short period of time, batteries should be replaced.

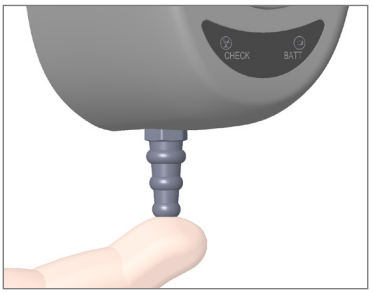
Calibration/Reset Guide - Sentinel

CALIBRATION/RESET:

1. Make sure that the Bottom Port of Vacuum Regulator is pointing down and away from direct bright light. Use your finger to cover the Bottom Port Hole (see **Figure 9**).

2. With the Bottom Port pointing down and the Hole blocked, insert the tip of the tool into the TEST hole (**Figure 5**) and press until the Red CHECK LED on the Front Housing begins to flash rapidly. The Amber BATT LED should come on first indicating that the batteries are good.

Figure 6: Block Bottom Port with Finger



NOTE: If no LEDs turn on after 10 seconds, change the batteries and begin the "Calibration/Reset" steps again.

Battery Replacement - Digital Gauge

1. Remove all Housing Screws and remove Front Housing from the Assembly (**Figure 10 or 11**).

2. Pull out the Digital Gauge from Disposable Body.

3. Lift the Battery Holder by pressing the tab by hand or with the help of a slotted screwdriver.

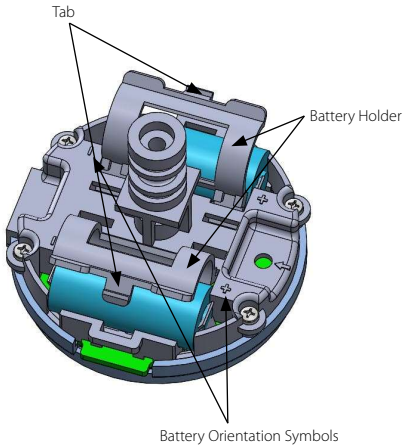
4. Install the new batteries following the battery orientation symbols.

5. Reinstall the Battery Holder and make sure the Battery Holder is locked in and not loose.

6. Place the Digital Gauge back into the Front Disposable Body.

7. Install the Front Housing back onto the Vacuum Regulator and tighten all Housing Screws.

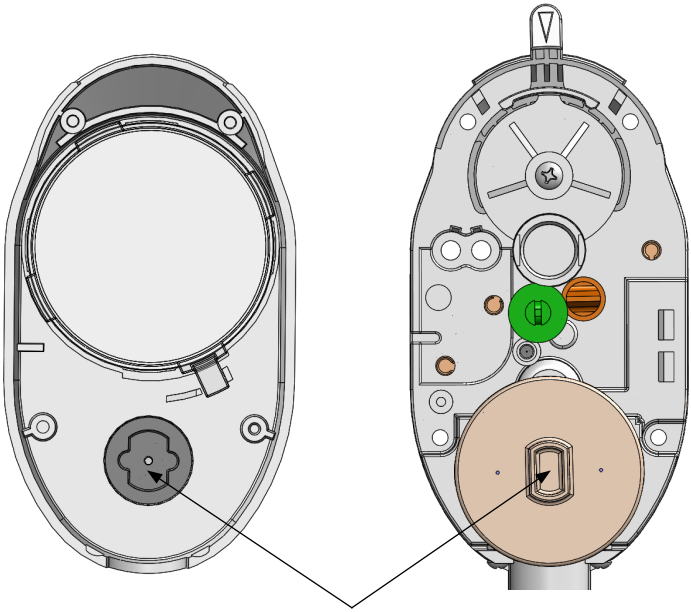
Figure 7: Battery Replacement for Digital Gauge



Troubleshooting Guide

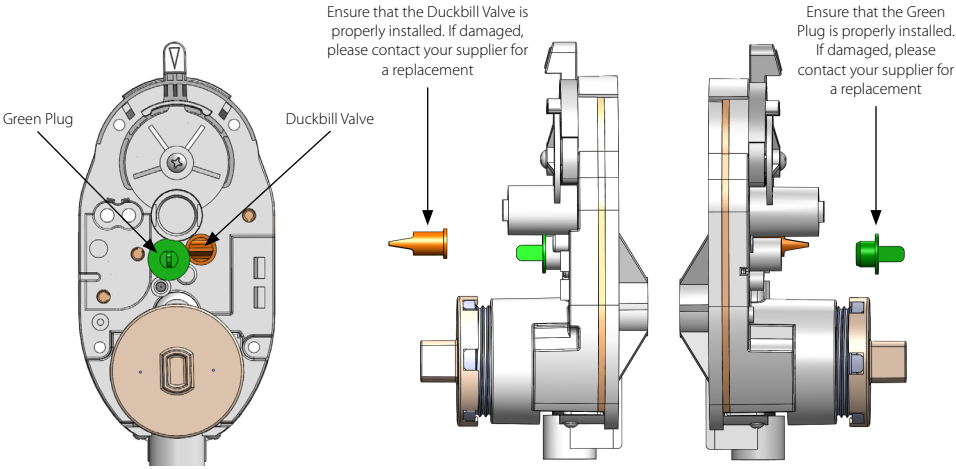
Problem	Check	Possible Cause	Corrective Action
Amber BATT LED is flashing (Sentinel only)	Sensor Assembly	Wrong battery orientation	Reinstall the batteries by following the Battery Orientation Symbols (page 15)
		Low Batteries	Replace the batteries (page 15)
Red CHECK LED is flashing (Sentinel only)	Sensor Assembly, Sensor Window and Disposable Body Kit	Unit is contaminated	Replace the Disposable Body Kit (including sensor window) and reset/calibrate the system
		Debris on the Sensor Window	Clean or Replace the Sensor Window and reset/calibrate the system
Cannot calibrate Sensor Module (Sentinel only)	Batteries	Low batteries	Replace the batteries (page 15)
Both BATT and CHECK LEDs are on and remain solid (Sentinel only)	Calibration method used	Wrong calibration method	Recalibrate using the "Calibration/ Reset Guide - Sentinel" (page 15)
No LEDs turn on when TEST button is pressed (Sentinel only)	Batteries in Sensor Assembly	Low batteries	Replace batteries (page 15)
Fails to draw vacuum	Vacuum Supply	No vacuum supply	Check the hospital's vacuum level
	Vacuum Regulator	Selector Switch is in the OFF position	Turn the Selector Switch to REG, FULL or INT position
		The Vacuum Regulator is regulated to the OFF position	Turn the Regulator Knob clockwise and regulate to the desired vacuum pressure
Fails to cycle properly in INT mode	Vacuum Regulator	INT mode was not selected	Turn the Selector Switch to INT
	Vacuum Supply	Insufficient vacuum source	Attach the unit to Vacuum Source
	Vacuum Regulator	Timing adjusted	Adjust ON & OFF time according to "Instructions for Setting the Intermittent Timing" (page 12)
Regulator Knob won't turn	Regulating Module	Overtightening of Regulator Knob	Remove Front Housing. Manually turn the Regulating Module clockwise until it is free
Cannot reassemble Front Housing	Regulating Module	Regulating Module is not lined up with the Regulator Knob Socket	Align Regulator Knob and Socket (Figure 8)
	Sensor Module (Sentinel only)	Sensor Assembly is not correctly installed in the Front Housing	Use guides on the inside of the Front Housing to ensure alignment (Figure 4)
Unit is leaking	Duckbill Valve	Duckbill Valve has come off or is loose	Reinstall the Duckbill Valve (Figure 9)
	Green Plug	Green Plug has come off or is loose	Reinstall the Green Plug (Figure 9)
FULL/REG mode is not showing vacuum	Bottom Port or Vacuum Supply	Bottom Port is open or vacuum supply is low	Occlude Bottom Port. If FULL vacuum is still low, check the hospital's vacuum level.

Figure 8: Front Housing Alignment



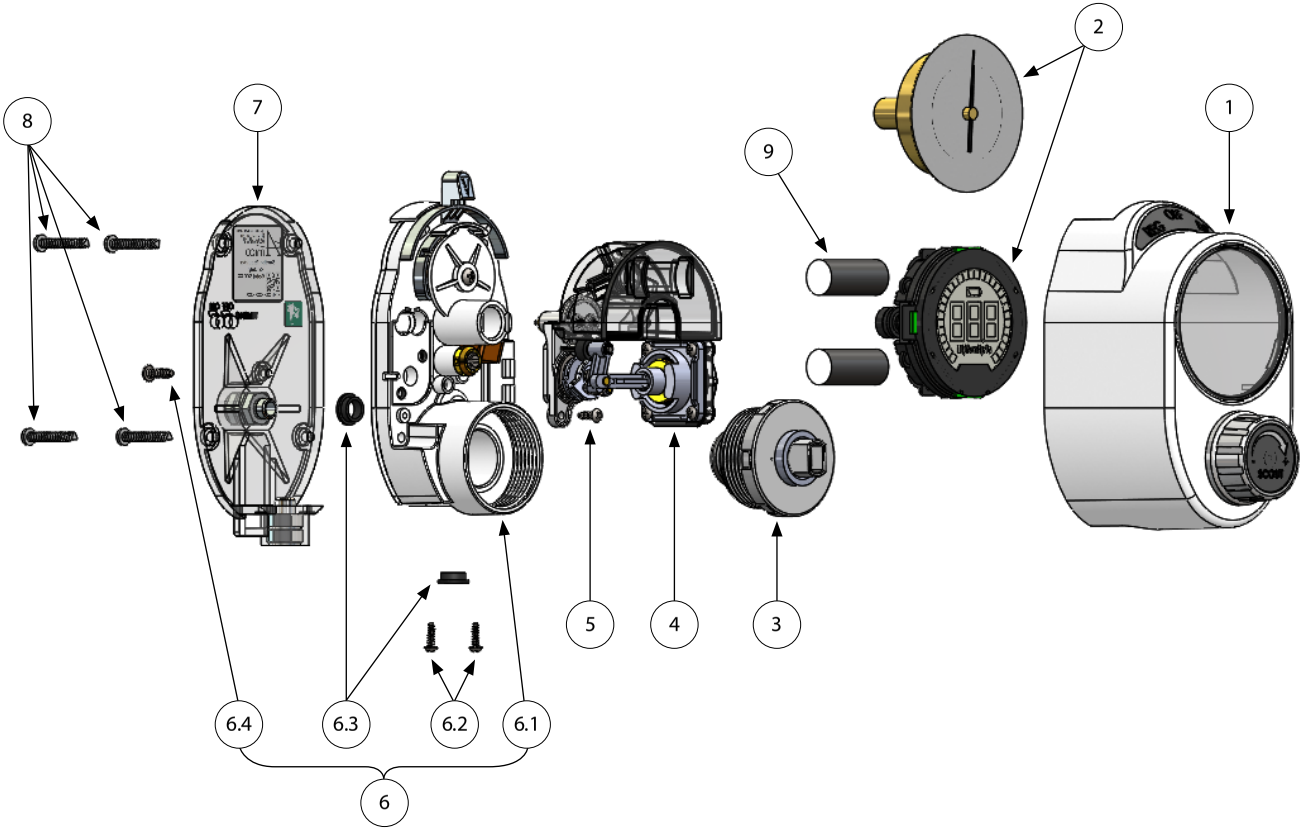
Ensure that the backside of the Regulator Knob and the Regulating Module are in the same orientation

Figure 9: Port Cover Locations



Vacuum Regulator Assembly Drawing - Scout

Figure 10

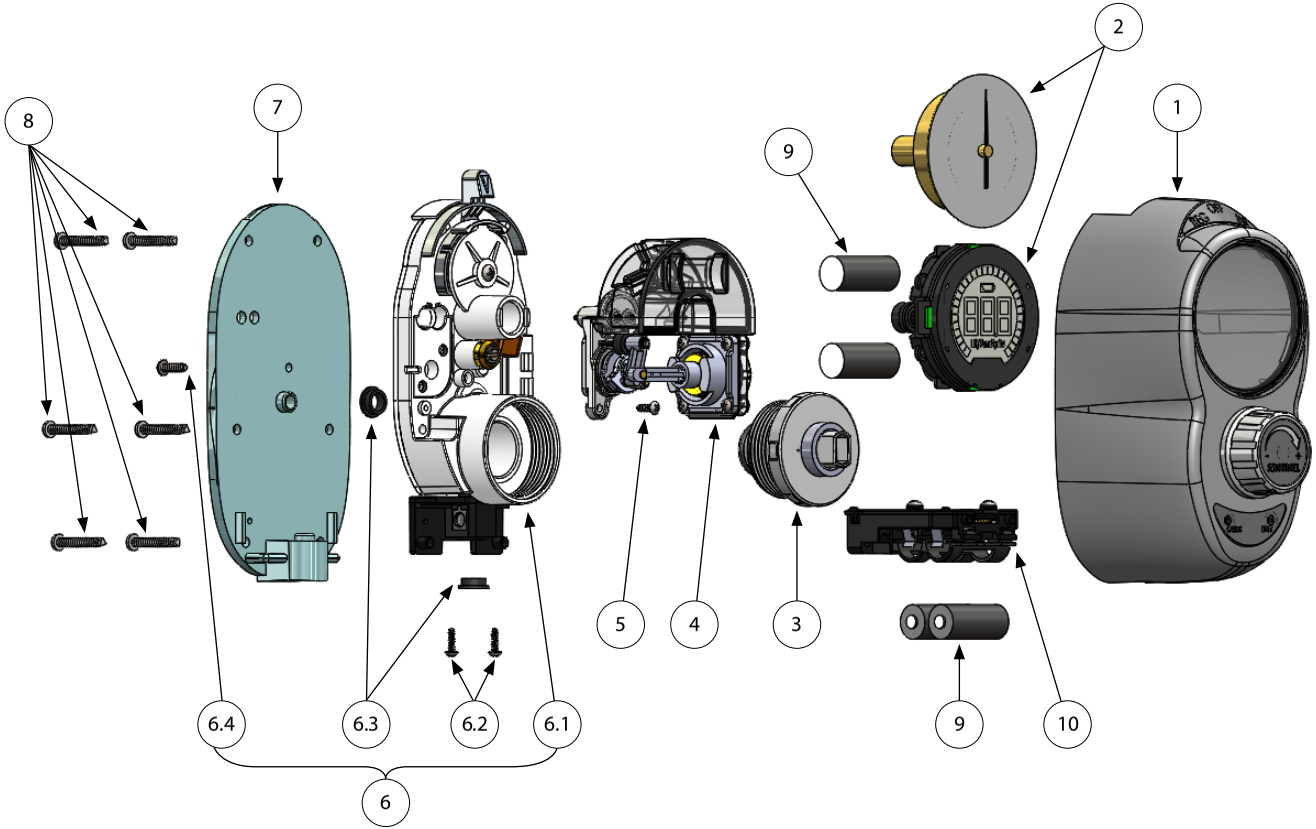


Item #	Description	Qty	Model(s)							
			CI Continuous Intermittent	C2 Continuous 2 Mode	C3 Continuous 3 Mode	CH Continuous High/ Surgical	PI Pediatric Intermittent	P2 Pediatric 2 Mode	NI Neonatal Intermittent	N2 Neonatal 2 Mode
1	Scout Front Housing Assembly White	1	SRX-FNTH-ASY-WI	SRX-FNTH-ASY-W2	SRX-FNTH-ASY-W3	SRX-FNTH-ASY-WH	SRX-FNTH-ASY-WI	SRX-FNTH-ASY-W2	SRX-FNTH-ASY-WI	SRX-FNTH-ASY-W2
2	Analog Gauge	1	SRA-GAUGE-300-F			SRA-GAUGE-750-F	SRA-GAUGE-160-F		SRA-GAUGE-100-F	
	Digital Gauge with Digital Batteries		SRD-GAUGE-300			SRD-GAUGE-750	SRD-GAUGE-160		SRD-GAUGE-100	
3	Regulating Module	1	SRX-REG-MOD				SRX-REG-MOD-185		SRX-REG-MOD-250	
4	Intermittent Module	1	SRX-CI-MODULE	N/A	N/A	N/A	SRX-CI-MODULE	N/A	SRX-CI-MODULE	N/A
5	Intermittent Screw	1	H-SLPPZ-424-031	N/A	N/A	N/A	H-SLPPZ-424-031	N/A	H-SLPPZ-424-031	N/A
6	Scout Disposable Body Replacement Kit	1	SRX-CI-DBKIT	SRX-C2-DBKIT	SRX-C3-DBKIT	SRX-CH-DBKIT	SRX-PI-DBKIT	SRX-P2-DBKIT	SRX-NI-DBKIT	SRX-N2-DBKIT
6.1	Scout Disposable Body Assembly	1	SRX-CI-DBDY-ASY	SRX-C2-DBDY-ASY	SRX-C3-DBDY-ASY		SRX-PI-DBDY-ASY	SRX-P2-DBDY-ASY	SRX-NI-DBDY-ASY	SRX-N2-DBDY-ASY
6.2	Disposable Body Bottom Screw	2	H-SLPPZ-424-031							
6.3	Disposable Body Port Gasket	2	SRX-PRT-GKT							
6.4	Disposable Body Back Screw	1	H-SLPPZ-424-050							
7	Scout Back Housing Kit	1	SRX-I-BCKH-C-KIT	SRX-C-BCKH-C-KIT			SRX-I-BCKH-CZ-KIT	SRX-C-BCKH-CZ-KIT	SRX-I-BCKH-CZ-KIT	SRX-C-BCKH-CZ-KIT
8	Front Housing Screw	4	H-SPPPZ-619-100							
9	Digital Batteries - 10/Pack	2	SRD-BAT-PK10							

NOTE: For MR Conditional Scout Regulators, contact provider for MR Conditional replacement components.

Vacuum Regulator Assembly Drawing - Sentinel

Figure 11



Item #	Description	Qty	Model(s)							
			CI Continuous Intermittent	C2 Continuous 2 Mode	C3 Continuous 3 Mode	CH Continuous High/ Surgical	PI Pediatric Intermittent	P2 Pediatric 2 Mode	NI Neonatal Intermittent	N2 Neonatal 2 Mode
1	Sentinel Front Housing Assembly White	1	SSX-FNTH-ASY-WI	SSX-FNTH-ASY-W2	SSX-FNTH-ASY-W3	SSX-FNTH-ASY-WH	SSX-FNTH-ASY-WI	SSX-FNTH-ASY-W2	SSX-FNTH-ASY-WI	SSX-FNTH-ASY-W2
2	Analog Gauge	1	SRA-GAUGE-300-F			SRA-GAUGE-750-F	SRA-GAUGE-160-F		SRA-GAUGE-100-F	
	Digital Gauge with Digital Batteries		SRD-GAUGE-300			SRD-GAUGE-750	SRD-GAUGE-160		SRD-GAUGE-100	
3	Regulating Module	1	SRX-REG-MOD				SRX-REG-MOD-250		SRX-REG-MOD-300	
4	Intermittent Module	1	SRX-CI-MODULE	N/A	N/A	N/A	SRX-CI-MODULE	N/A	SRX-CI-MODULE	N/A
5	Intermittent Screw	1	H-SLPPZ-424-031	N/A	N/A	N/A	H-SLPPZ-424-031	N/A	H-SLPPZ-424-031	N/A
6	Sentinel Disposable Body Replacement Kit	1	SSX-CI-DBKIT	SSX-C2-DBKIT	SSX-C3-DBKIT	SSX-CH-DBKIT	SSX-PI-DBKIT	SSX-P2-DBKIT	SSX-NI-DBKIT	SSX-N2-DBKIT
6.1	Sentinel Disposable Body Assembly	1	SSX-CI-DBDY-ASY	SSX-C2-DBDY-ASY	SSX-C3-DBDY-ASY		SSX-PI-DBDY-ASY	SSX-P2-DBDY-ASY	SSX-NI-DBDY-ASY	SSX-N2-DBDY-ASY
6.2	Disposable Body Bottom Screw	2	H-SLPPZ-424-031							
6.3	Disposable Body Port Gasket	2	SRX-PRT-GKT							
6.4	Disposable Body Back Screw	1	H-SLPPZ-424-050							
7	Sentinel Back Housing Kit	1	SSX-I-BCKH-W-KIT	SSX-C-BCKH-W-KIT			SSX-I-BCKH-Z-KIT	SSX-C-BCKH-Z-KIT	SSX-I-BCKH-Z-KIT	SSX-C-BCKH-Z-KIT
8	Front Housing Screw	6	H-SPPPZ-619-100							
9	Digital Batteries - 10/Pack	4	SRD-BAT-PK10							
10	Sentinel Sensor Module with Digital Batteries	1	SSX-SEN-MOD							

Warranty Policy - Vacuum Regulators

This Product is sold by Amico Patient Care Corporation, a Richmond Hill Corporation (the "Company") under the express terms of the warranty set forth below.

For a period of five (5) years (or for a period of ten [10] years for analog and twelve [12] years for digital in North America only) from the date the Company ships this Product to the customer, this Product is warranted to be free from functional defects in materials and workmanship and to conform in all material respects to the description of the Product contained in the operation manual, so long as this Product is properly operated under conditions of normal use, regular periodic maintenance and service is performed and repairs are made in accordance with the operation manual.

Within this period, Amico Patient Care Corporation will repair or replace any part which is proven to be defective at the Company's costs. All shipping and installation costs will be borne by the Customer after the first twenty four (24) months after receipt of the Product.

This warranty shall not apply if the Product has been repaired or altered by anyone other than the Company or an authorized dealer, or if the Product has been subjected to abuse, misuse, negligence or accidental damage. Should the parts be repaired or replaced by an authorized technician in accordance to the Company's operation manual, the warranty will continue to be applied.

This warranty is extended only to the initial customer with respect to the purchase of this Product directly from the Company or from an authorized dealer as new merchandise. Dealers are not authorized to alter or amend the warranty of any Product described in this agreement unless previously authorized in writing by the Company.

This warranty is expressly in lieu of any other warranties, express or implied, including any warranty of merchantability or fitness for a particular purpose. The Company shall not be liable for incidental, collateral, consequential or special damages including, but not limited to: lost profits or loss of use. The Company's liability, in the aggregate, shall not exceed the purchase price of the product.

As determined at the sole discretion of the Company, Products which qualify under the warranty will be repaired or replaced, at the Company's option, and returned to the Customer via ground delivery. The Company reserves the right to stop manufacturing any product or change materials, designs or specifications without notice.

All claims for warranty must first be approved by Amico Patient Care Corporation's Customer Service Department at: SOT-CSR@amico.com or 905.764.0800. Upon approval, the Customer Service Department will issue a Return Goods Authorization (RGA) number. An RGA must be obtained prior to commencement of any warranty claim.

Notes

www.amico.com

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