



AMY SYSTEMS™



AMYSEAT™

OWNER'S MANUAL



1. Contents

1.	CONTENTS	.....
2.	INTRODUCTION	.....
3.	SAFETY WARNINGS	.....
4.	POWER TILT STANDARD OPERATING INSTRUCTIONS	.....
5.	POWER SEAT LIFT STANDARD OPERATING INSTRUCTIONS	.....
6.	POWER TILT / SEAT LIFT COMBO STANDARD OPERATING INSTRUCTIONS	.....
7.	POWER RECLINE WITH MECHANICAL SHEAR REDUCTION STANDARD OPERATING INSTRUCTIONS	.....
8.	POWER ELEVATING & ARTICULATING FRONT RIGGINGS STANDARD OPERATING INSTRUCTIONS	.....
9.	ADJUSTMENTS STANDARD OPERATING INSTRUCTIONS	.....
10.	TROUBLESHOOTING GUIDE	.....
11.	MAINTENANCE AND SERVICING	.....
12.	LIMITED WARRANTY	.....
13.	DISCLAIMER	.....

2. Introduction

Congratulations on choosing the Amyseat - Complete Modular Power seating Solutions.

Important safety, operating, and maintenance instructions that require your attention are included in this operating instructions manual. We urge you to read the entire manual carefully before using your new power seating Systems.

Review the important safety information in each section often, until the warnings are second nature to you. Consult your professional medical advisors for assistance in developing safe and effective techniques to perform your daily activities according to your own physical abilities. All the features should be practiced with an attendant until they can be performed safely.

Keep in mind that the safety precautions in this manual are general warnings intended to be used only as basic guidelines. Your new wheelchair should receive frequent, regularly scheduled maintenance which should include an inspection of the mechanical parts to insure proper operation and safety. Inspection procedures, troubleshooting procedures and procedures for making minor adjustments are included in this manual.

Your authorized Amysystems supplier knows your Seating System best and can answer most of your questions about safety, use and maintenance.

For your future reference, fill in the following:

Amysystems Dealer : _____

Address: _____

City, Province, Postal Code: _____

Phone Number: _____

Delivery Date: _____

Amysystems Serial Numbers: _____

Wheelchair Make and Model: _____

Wheelchair Serial number: _____

We want to hear your questions or comments about this manual, the safety and reliability of your Seating System and the service you received from your Amysystems dealer. Please feel free to contact us at the following:

Web Site: www.amysystems.com

e-mail: service@amysystems.com

e-mail : techsupport@amysystems.com

In Canada

1650 Chicoine
Vaudreuil-Dorion, Qc.
J7V 8P2
Tel : 888-453-0311
Fax : 877-501-8458

3. SAFETY WARNINGS

WARNING – DO NOT INSTALL, OPERATE AND MAINTAIN THIS EQUIPMENT WITHOUT READING, UNDERSTANDING AND FOLLOWING THE PROPER AMYSYSTEMS INSTRUCTIONS, OTHERWISE INJURY AND/OR DAMAGE MAY RESULT.

In each of the sections that follow you will find important instructions for your safety. The words “**WARNING**” and “**CAUTION**” alert you to specific risks of personal injury or property damage. They mean as follows:

- WARNING:** A hazard or unsafe practice that may cause severe injury or death to you or to other persons.
- CAUTION:** A hazard or unsafe practice that may cause damage to the Amyseat and its power options or to other property.
- WARNING:** The addition of accessories or components, or modifications to a powered wheelchair, may make it more susceptible to EMI (Electro Magnetic Interference), and that there is no easy way to evaluate their effect on the overall immunity of the powered wheelchair.
- WARNING:** Before the delivery of the seating system, make sure the stability of the wheelchair is maintained when tilted and/or reclined and/or lifted while the user is sitting in the seating system.
- WARNING:** The seating system must be used by users who are capable of driving a power wheelchair safely
- WARNING:** Do not attempt to tilt and/or recline and/or elevate when on an incline.
- WARNING:** Do not drive up an incline when already tilted, reclined or lifted.
- WARNING:** Do not tilt and/or recline when the seat lift is elevated.
- WARNING:** Do not alter or bypass drive lock-out, mercury switch or reduce speed mechanisms.
- WARNING:** Do not install or operate power seating options on a rear wheel drive wheelchair without anti-tippers installed. Do not attempt inclines without anti-tippers installed.
- WARNING:** Do not attempt incline or decline greater than six (6) degrees (10% grade or one foot of rise or fall per ten (10) feet of ramp length).
- WARNING:** Do not use this seating system as a seat in a motor vehicle. Always transfer wheelchair user to an approved vehicle seat.
- WARNING:** To prevent wheelchair movement, always turn off the wheelchair before transferring from the seating system.
- WARNING:** Do not step or stand on the foot plates while transferring to and from your seating system. This may cause the wheelchair to tip.
- WARNING:** For a power tilt and/or recline system, do not exceed a user weight of 400 lbs.
- WARNING:** For any system including a power Seat Lift, do not exceed a user weight of 300 lbs.
- WARNING:** For a power tilt and Seat Lift Combo, do not exceed a user weight of 300 lbs.
- WARNING:** Do not put hands or any objects underneath the seat while tilting, reclining or lifting.
- WARNING:** Do not modify settings or adjustments of your seating system. All settings and adjustments must be made by a qualified therapist or technician.
- WARNING:** Unauthorized modifications to the seating system could create a hazardous condition.
- WARNING:** Keep all wire cables from moving parts or from pulling when parts are moving.
- WARNING:** Do not replace the special high-strength fasteners or bolts with lower grade fasteners.
- ***WARNING:** A warning decal is affixed on your power tilt stating that “ Rear wheels must be at most rearward position when tilt is installed. Do not tilt while on incline, it may cause bodily harm or injury.”



******WARNING:** A warning decal is affixed on your seating system stating “ PINCH AREA, keep hands or objects clear from moving equipment ” (symbol)



AMYSYSTEMS SPECIALLY DISCLAIMS RESPONSIBILITY FOR ANY BODILY INJURY OR PROPERTY DAMAGE WHICH MAY OCCUR DURING ANY USE WHICH DOES NOT COMPLY WITH FEDERAL, STATE, LOCAL LAWS OR ORDINANCES.

4. Power Tilt (Standard Operating Instructions)

<p>WARNING!!!</p> <p>Make sure the wheelchair is on a level surface before proceeding with tilt mode.</p>	
<p><u>SINGLE ACTUATOR TOGGLE SWITCH</u></p> <p>Increasing Tilt Angle</p> <p>Pull the toggle switch (located next to the wheelchair joystick) backward toward the rear of the wheelchair until the desired tilt angle is achieved, then release.</p>	
<p><u>SINGLE ACTUATOR TOGGLE SWITCH</u></p> <p>Decreasing Tilt Angle</p> <p>To reverse the tilt angle direction. Release the toggle switch to the neutral position for a minimum of 1 second and push the toggle switch (located next to the wheelchair joystick) forward toward the front of the wheelchair until the desired tilt angle is achieved, then release.</p>	
<p>Drive lock-Out</p> <p>Is a safety feature designed to prevent the wheelchair from being driven while in a tilt angle over 15 degrees relative to the vertical position.</p> <p>DANGER!!!</p> <p>Never operate the wheelchair while in tilt mode over 15 degrees relative to the vertical position. If the drive lock-out does not stop the wheelchair from operating when in a tilt angle over 15 degrees, have the wheelchair or power tilt system serviced by an authorized dealer or qualified technician.</p>	

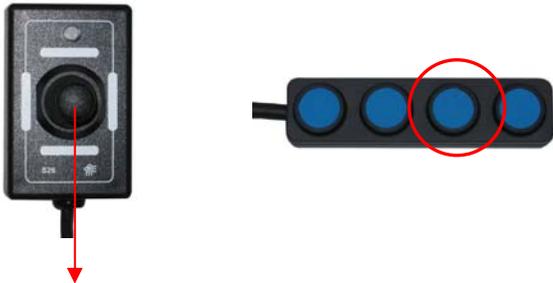
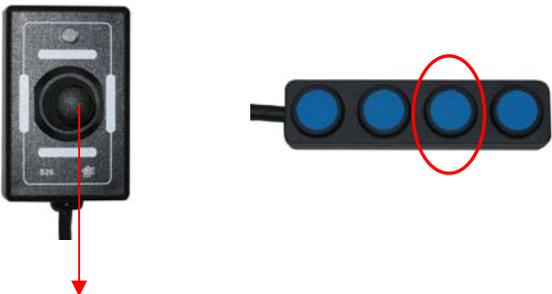
5. Power Seat Lift (Standard Operating Instructions)

<p>WARNING!!!</p> <p>Make sure the wheelchair is on a level surface before proceeding with Lift mode and driving in reduced speed while lifted.</p>	
<p><u>SINGLE ACTUATOR TOGGLE SWITCH</u></p> <p>Increasing Lift Height</p> <p>Pull the toggle switch (located next to the wheelchair joystick) backward toward the rear of the wheelchair until the desired Lift Height is achieved, then release.</p>	
<p><u>SINGLE ACTUATOR TOGGLE SWITCH</u></p> <p>Decreasing Lift Height</p> <p>To decrease the Lift Height. Release the toggle switch to the neutral position for a minimum of 1 second and push the toggle switch (located next to the wheelchair joystick) forward toward the front of the wheelchair until the desired Lift Height is achieved, then release.</p>	
<p>Driving in Reduced Speed</p> <p>Is a feature designed to allow the user to drive the wheelchair at a reduced speed while lifted up to 11". When lifted, the drive speed is then reduced to 30% of its original setting. Full drive speed is achieved when the seat lift is down to its lowest position.</p> <p>DANGER!!!</p> <p>Never operate the seat lift when the wheelchair is in any slope. In reduced speed, the wheelchair must be driven on a level surface relative to the vertical position. If the reduced speed does not slow the wheelchair's drive speed to 30% of its original settings, have the wheelchair or power seat lift system serviced by an authorized dealer or qualified technician.</p>	

6. Power Tilt /Seat Lift Combo (Standard Operating Instructions)

<p>WARNING!!!</p> <p>Make sure the wheelchair is on a level surface before proceeding with either Tilt or Lift mode and driving in reduced speed while lifted.</p> <p>Tilt and Seat Lift options are programmed to operate seperatly. The ability to tilt while the seat lift is elevated is not possible. Bypassing this programming may cause severe injury.</p>	
<p><u>DUAL ACTUATOR TOGGLE SWITCH</u></p> <p>Increasing / Decreasing Seat Lift Height</p> <p>Pull the toggle switch (located next to the wheelchair joystick) backward toward the rear of the wheelchair until the desired Lift Height is achieved, then release. To change direction, release the toggle switch to the neutral position for a minimum of 1 second, and pull back the toggle switch in the same direction toward the back of the chair until you achieve the desired height, then release.</p>	
<p><u>DUAL ACTUATOR TOGGLE SWITCH</u></p> <p>Increasing / Decreasing Tilt Angle</p> <p>Push the toggle switch (located next to the wheelchair joystick) forward toward the front of the wheelchair until the desired tilt angle is achieved, then release. To change direction, release the toggle switch to the neutral position for a minimum of 1 second, and push forward the toggle switch in the same direction toward the front of the chair until you achieve the desired tilt angle, then release.</p>	
<p>Driving in Reduced Speed</p> <p>Is a feature designed to allow the user to drive the wheelchair at a reduced speed while lifted up to 11". When lifted, the drive speed is then reduced to 30% of its original setting. Full drive speed is achieved when the seat lift is down to its lowest position.</p> <p>Drive lock-Out</p> <p>Is a safety feature designed to prevent the wheelchair from being driven while in a tilt angle over 15 degrees relative to the vertical position.</p> <p>DANGER!!!</p> <p>Never operate the wheelchair while in tilt mode over 15 degrees relative to the vertical position. Never operate the seat lift when the wheelchair is in any slope. In reduced speed, the wheelchair must be driven on a level surface relative to the vertical position. If the drive lock-out does not stop the wheelchair from operating when in a tilt angle over 15 degrees, or if it allows the seat lift to elevate while tilted, or if the reduced speed does not slow the wheelchair's drive speed to 25% of its original settings, have the wheelchair or power seat lift system serviced by an authorized dealer or qualified technician.</p>	

7. Power Recline with Mechanical Shear Reduction (Std. Operating Instructions)

<p>WARNING!!!</p> <p>Make sure the wheelchair is on a level surface before proceeding with recline mode.</p>	
<p>Increasing Recline Angle with 4-way Toggle Pull the four-way toggle switch back towards the rear of the wheelchair until the desired recline angle is achieved and release.</p> <p>Increasing Recline Angle with Push Button Switches Push the 3rd button furthest from the wire until the desired recline angle is achieved and release.</p>	
<p>Decreasing Recline Angle with 4-way Toggle To reverse the recline angle direction: Release the four-way toggle switch to the neutral position for a minimum of 1 second and pull the four-way toggle switch back towards the rear of the wheelchair until the desired recline angle is achieved and release.</p> <p>Decreasing Recline Angle with Push Button Switches To reverse the recline angle direction: Release the 3rd button furthest from the wire to the neutral position for a minimum of 1 second and push the same button until the desired recline angle is achieved and release.</p>	
<p>Mercury Limit Switch</p> <p>When equipped with a Tilt and power or manual recline combination, your wheelchair will include a mercury switch located inside the shroud, on the right side of the chair. The purpose of the mercury switch is to control the combination of the total tilt / recline angle.</p> <p>This mercury switch can be manually turned to change the total tilt / recline angle to a desired or comfortable level for the end user. The total tilt and recline angle should never exceed the horizontal plain (180 degrees). Technicians must watch for a possible tilt actuator behind the seat that would reduce the total tilt / recline limit. The total tilt and recline angle should be limited prior to contact between the shroud and the tilt actuator.</p>	

8. Power Elevating & Articulating Front Riggings (Std. Operating Instructions)

Make sure the wheelchair is on a level surface.

Increasing & Decreasing the Left Legrest Angle With the 4-Way Toggle Switch

Move the four-way toggle switch towards the left side of the wheelchair until the desired legrest angle is achieved. To reverse the legrest angle direction: Release the four-way toggle switch to the neutral position for a minimum of 1 second and move the four-way toggle switch towards the left side of the wheelchair until the desired legrest angle is achieved.

Increasing & Decreasing the Left Legrest Angle With the Push Button Switches

Push the 2nd button furthest from the wire until the desired legrest angle is achieved and release. To reverse the legrest angle direction: Release the 2nd button furthest from the wire to the neutral position for a minimum of 1 second and push the same button until the desired legrest angle is achieved and release.



Make sure the wheelchair is on a level surface.

Increasing & Decreasing the Right Legrest Angle With the 4-Way Toggle Switch

Move the four-way toggle switch towards the right side of the wheelchair until the desired legrest angle is achieved. To reverse the legrest angle direction: Release the four-way toggle switch to the neutral position for a minimum of 1 second and move the four-way toggle switch towards the right side of the wheelchair until the desired legrest angle is achieved.

Increasing & Decreasing the Right Legrest Angle With the Push Button Switches

Push the 1st button closest to the wire until the desired legrest angle is achieved and release. To reverse the legrest angle direction: Release the 1st button closest to the wire to the neutral position for a minimum of 1 second and push the same button until the desired legrest angle is achieved and release.



Make sure the wheelchair is on a level surface.

Increasing & Decreasing the Power Center Mount With the 4-Way Toggle Switch

Move the four-way toggle switch towards the left side of the wheelchair until the desired center mount angle is achieved. To reverse the center mount angle direction: Release the four-way toggle switch to the neutral position for a minimum of 1 second and move the four-way toggle switch towards the left side of the wheelchair until the desired center mount angle is achieved.

Increasing & Decreasing the Power Center Mount With the Push Button Switches

Push the 2nd button furthest from the wire until the desired center mount angle is achieved and release. To reverse the center mount angle direction: Release the 2nd button furthest from the wire to the neutral position for a minimum of 1 second and push the same button until the desired center mount angle is achieved and release.



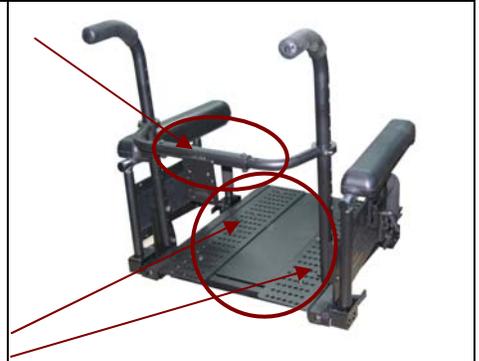
9. Adjustments

SEAT - Width Adjustment

Unscrew and remove the 6 to 8 screws located on top of the seat pan and, then equally adjust the seat width to the desired width and put screws back in place.

Note: The width adjustment must also be made on the rear cross tubes that hold the back canes and seat laterally.

WARNING: At all times, the screws holding the seat plates and back cross tube must be screwed in tight and secured in order to avoid severe injury and/or damage to the seating system.



SEAT - Depth Adjustment

There is two side lateral frames which will allow for depth adjustment. The short frame is from 14" to 19" deep and the long frame is from 18" to 22" deep.

To adjust the seat depth, you must loosen the 3 screws from each side plates and slide them to the desired seat depth.

WARNING: At all times, the three screws on each side holding the side plates must be screwed in tight and secured in order to avoid severe injury and/or damage to the seating system.



BACK - Adjustable Back Angle

Using the series of slotted holes provided on each side plates, increase or decrease the back angle by loosening the screw from each side plates and adjust them equally to the desired seat depth.

WARNING: At all times, the screws on each side holding the back canes must be screwed in tight and secured in order to avoid severe injury and/or damage to the seating system.



Adjusting the Center of Gravity

Due to the variety of seat measurements and modular power options available on various power wheelchairs. Amysystems offers many adjustments that offers the ability to adjust to individual client needs, and properly adjusting the center of gravity is critical for patient safety and wheelchair performance. To adjust the center of gravity, unscrew the bolts on each side of the main adaptors and adjust the system for optimal performance.

WARNING: At all times, the screws on each side holding the main system must be screwed in tight and secured in order to avoid severe injury and/or damage to the seating system.

WARNING: Before delivering an Amysystems product, the dealer must verify while the user is sitting in the seating system that the center of gravity and overall stability of the wheelchair is maintained and optimal in all combinations of tilt, recline or elevation.

Similar for most Power Chairs



10. Troubleshooting Guide

SYMPTOM	POSSIBLE CAUSES	HOW TO FIX THIS
Nothing works!	<ul style="list-style-type: none"> • No batteries in boxes • 24V Power Cable disconnected • Fuse is burned • Switchbox is defective 	<ul style="list-style-type: none"> • Check batteries • Verify all connections • Verify and / or replace fuse
Actuator is noisy when going up or down	<ul style="list-style-type: none"> • Defective Actuator • Mechanical restraint 	<ul style="list-style-type: none"> • Make sure the seat is aligned well and doesn't interfere with the rear of the tilt actuator when tilting • Check for and remove mechanical restraints • Eliminate all contacts of the actuator with the power base frame
Actuator is going only in one direction. (with Duo Controller)	<ul style="list-style-type: none"> • Wrong Programming • Wrong Cable Plugging 	<ul style="list-style-type: none"> • Verify electrical assembly and programming thoroughly • If it still does not work, call amysystems technical support for further instructions
Relays can be heard, but actuator does not operate	<ul style="list-style-type: none"> • Actuator not connected to controller • Defective actuator • Defective controller 	<ul style="list-style-type: none"> • Verify electrical assembly and programming thoroughly • If it still does not work, call amysystems technical support for further instructions
Fuse burns repeatedly	<ul style="list-style-type: none"> • Mechanical restraint • Short circuit in one of the cables • Defective controller 	<ul style="list-style-type: none"> • Verify mechanical assembly thoroughly • Call Amysystems technical support for further instructions
Drive defeat switch, mercury switch or reduced speed does not work properly	<ul style="list-style-type: none"> • Wrong Programming • Wrong Cable Plugging • Drive defeat switch is unplugged or defective • Reduced speed switch is unplugged or defective • Mercury switch is unplugged or defective. 	<ul style="list-style-type: none"> • Verify proper mechanical operation of limit switches. • Verify electrical assembly and programming thoroughly • If it still does not work, call Amysystems technical support for further instructions
Charger fuse burns every time I try to charge the batteries	<ul style="list-style-type: none"> • Wrong charger is used • Trouble with the power interfacing cable 	<ul style="list-style-type: none"> • Make sure you are using the battery charger provided with your wheelchair

11. Maintenance and Servicing

Your Amyseat and Power Option(s) require very little maintenance in order to maintain performance and avoid premature wear, damage or injury.

Use the maintenance chart below to keep your Amyseat and Power Option(s) in peak condition.

	<u>Monthly</u>	<u>Quarterly</u>	<u>Annually</u>
Clean up Linear Bearing shafts and Drive lock-out limit switch (Use a clean / dry cloth)	***		
Check plugs and connectors for proper connections	***		
Check all cables for any sign of damage such as pinched, cut, frayed, pulled or crushed wires	***		
Check all moving parts for wear		***	
Inspect all nuts, bolts and fasteners for looseness or wear	***		
Complete inspection, safety check and servicing by an authorized Amysystems supplier			***

12. Limited Warranty

GENERAL WARRANTY INFORMATION

1. LIMITED WARRANTY

Amylior Inc (DBA: Amysystems™) warrants components against defects in materials and workmanship from the original date of purchase from Amylior Inc (DBA: Amysystems™) as follows:

WARRANTY

Five (5) years: Main Frame, Seat Frame, Interface Brackets, and Structural Components (Note #1)

Two (2) years: All Electronic Components, & Actuators (Note #1)

Ninety (90) days: Upholstery, Plastic or Rubber parts and Painted Surfaces due to poor adhesion. (Note #1)

Six (6) months: All other Original Components (Note #1)

Note #1: Excludes physical Damages

2. REPLACEMENT PARTS WARRANTY

If an item is replaced under warranty, that item's new warranty period shall be the greater of the remaining original item's warranty

One (1) year: Main Frame, Seat Frame, Interface Brackets, and Structural Components (Note #1)

Six (6) months: All Electronic Components, & Actuators (Note #1)

Thirty (30) days: Upholstery, Plastic or Rubber parts and Painted Surfaces due to poor adhesion. (Note #1)

Ninety (90) days: All other Original Components (Note #1)

Note #1: Excludes physical Damages

3. WHAT WE WILL DO

Our sole liability is to repair or replace covered parts. This is your only remedy for consequential damages.

4. WHAT YOU MUST DO

a. Obtain from us, while this warranty is in effect, prior approval for return or repair covered parts.

b. Return the wheelchair or part(s), freight pre-paid, to:

Amylior Inc. (DBA : Amysystems™)

1650 Chicoinc

Vaudreuil-Dorion, QC

J7V 8P2

(888) 453-0311

c. Pay the cost of labour to install or repair parts.

5. NOTICE TO CONSUMER

There are no other express warranties. To the extent permitted by law, any implied warranty (including a Warranty of merchantability or fitness for a particular purpose) is limited to:

a. One (1) year from the first consumer purchase, and

b. Repair or replacement of the defective part only.

13. Disclaimer

PLEASE NOTE: THE WARRANTY BELOW HAS BEEN DRAFTED TO COMPLY WITH FEDERAL LAW APPLICABLE TO PRODUCTS MANUFACTURED AFTER JULY 4,1975.

This warranty is extended only to the original purchaser/user of our products.

DISCLAIMER

Amysystems makes no claims as to the therapeutic effectiveness of the products. Our only claims relate to the ability of the products to provide safe and reliable powered repositioning on the equipment onto which they are installed.

LIMITED WARRANTY

This warranty does not include any labor or shipping charges incurred in replacement part installation or repair of any such product. Amysystems' sole obligation and your exclusive remedy under this warranty shall be limited to such repair and/or replacement.

The sole obligation of Amysystems under this warranty shall be to repair or replace any component or components which are found to be defective. For warranty service, contact the dealer from which the system was purchased. The purchaser of the product is responsible for returning the product to the dealer. Any defective component, once replaced under warranty, shall become the property of Amysystems. If further service is required, contact Amysystems at 1-888-453-0311.

Do not return products to our factory without our prior consent.

LIMITATIONS AND EXCLUSIONS

The foregoing warranty shall apply only to the original purchase and shall not apply to serial numbered products if the serial number has been removed or defaced, products subjected to negligence, accident, improper operation, maintenance or storage, commercial or institutional use, products modified without Amysystems' express written consent (including, but not limited to, modification through the use unauthorized parts or attachments; products damaged by reason of repairs made to any component without the specific consent of Amysystems, or to a product damaged by circumstances beyond Amysystems' control, and such evaluation will be solely determined by Amysystems. The warranty shall not apply to problems arising from normal wear or failure to adhere to the following instructions.

The foregoing warranty is exclusive and in lieu of all other express warranties. Implied warranties, if any, including the implied warranties of merchantability and fitness for a particular purpose, shall not extend beyond the duration of the expressed warranty provided herein and the remedy for violations of any implied warranty shall be limited to repair or replacement of the defective product pursuant to the terms contained herein. Amysystems shall not be liable for any consequential or incidental damages whatsoever.

Some jurisdictions do not allow the exclusions or limitation of incidental or consequential damages, or limitation on the length of an implied warranty. Local laws should be reviewed to determine if the above exclusions and limitations apply.