



**AMY SYSTEMS™**



**AMI INTERFACE™**

**OWNER'S MANUAL**



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## 2. Introduction

Congratulations on choosing the AmyInterface - 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](http://www.amysystems.com)

e-mail: [service@amysystems.com](mailto:service@amysystems.com)

e-mail : [techsupport@amysystems.com](mailto: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 AmyInterface 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 elevated 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 elevate when on an incline.
- WARNING:** Do not drive up an incline when already tilted or lifted.
- WARNING:** Do not tilt 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, do not exceed a user weight of 300 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 or lifting.
- WARNING:** Do not modify settings or adjustments of your seating system. All settings and adjustments must be made by a qualified 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, PROVINCIAL, LOCAL LAWS OR ORDINANCES.

## 4. Power Tilt (Standard Operating Instructions)

<p><b>WARNING!!!</b></p> <p>Make sure the wheelchair is on a level surface before proceeding with tilt mode.</p>	
<p><b><u>SINGLE ACTUATOR TOGGLE SWITCH</u></b></p> <p><b>Increasing Tilt Angle</b></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><b><u>SINGLE ACTUATOR TOGGLE SWITCH</u></b></p> <p><b>Decreasing Tilt Angle</b></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><b>Drive lock-Out</b></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><b>DANGER!!!</b></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><b>WARNING!!!</b></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><b><u>SINGLE ACTUATOR TOGGLE SWITCH</u></b></p> <p><b>Increasing Lift Height</b></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><b><u>SINGLE ACTUATOR TOGGLE SWITCH</u></b></p> <p><b>Decreasing Lift Height</b></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><b>Driving in Reduced Speed</b></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><b>DANGER!!!</b></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><b>WARNING!!!</b></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><b><u>DUAL ACTUATOR TOGGLE SWITCH</u></b></p> <p><b>Increasing / Decreasing Seat Lift Height</b></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><b><u>DUAL ACTUATOR TOGGLE SWITCH</u></b></p> <p><b>Increasing / Decreasing Tilt Angle</b></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><b>Driving in Reduced Speed</b></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><b>Drive lock-Out</b></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><b>DANGER!!!</b></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. Troubleshooting Guide

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

# 8. Maintenance and Servicing

Your AmyInterface 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 AmyInterface and Power Option(s) in peak condition.

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

# 9. 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.

# 10. 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.