

# INSTRUCTION GUIDE

## *SIGNATURE SEAT WIDTH ADJUSTMENT with RECLINING BACKREST*



## ADJUSTING SIGNATURE SEAT WIDTH with RECLINING BACK (cont'd)

### INTRODUCTION

This guide provides step-by-step instructions for adjusting the SYSTEM WIDTH on an Alltrack power wheelchair equipped with a Signature power or manual RECLINING BACKREST. It outlines the full procedure, including systematic disassembly, repositioning, and reassembly of seat components.

The all-new Signature Power Positioning system simplifies basic adjustments such as system width, depth and center of gravity by adding slots that allow most bolts to *only be loosened* instead of fully removed. This will greatly reduce the time needed to make basic adjustments and simplify the process by keeping components in place during adjustments. A much smaller number of bolts still must be removed, thus retaining the structural integrity of the overall system.

### BEFORE STARTING

#### Important safety precautions and tech tips for easier adjustments

- Make sure the seat is securely supported during the adjustment process.
- Check that all tools are in good working condition before use.
- Keep all fasteners organized to prevent loss and ensure easy reassembly.

**Note** all fasteners are *metric*, and both cap-head and button-head bolts are used and referenced in this document.

- All references made to the left- or right-hand side in this document are made from the perspective of someone sitting in the power wheelchair unless otherwise noted.
- It is recommended that you adjust one side at a time, starting with the left-hand side.

#### Tools and equipment required

- 5 mm Allen key
- Work surface or appropriate workspace

## ADJUSTING SIGNATURE SEAT WIDTH with RECLINING BACK (cont'd)

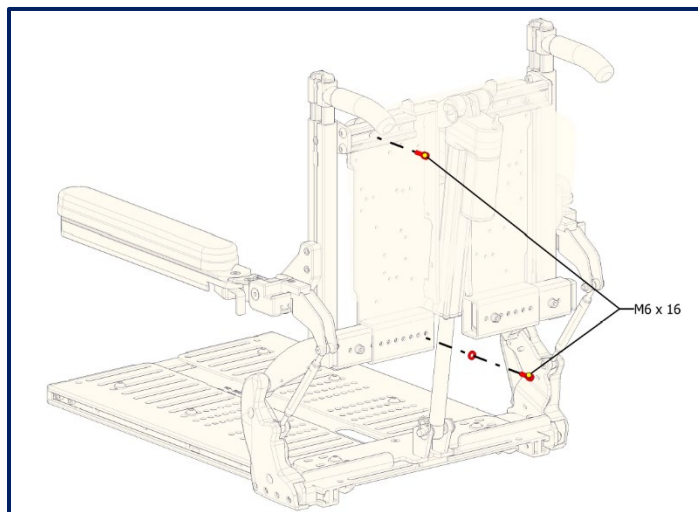
### WIDTH ADJUSTMENT – LEFT SIDE

#### INITIAL DISASSEMBLY

##### 1. Remove M6 x 16 mm Bolts from Back

**Tool Required:** 5 mm Allen key

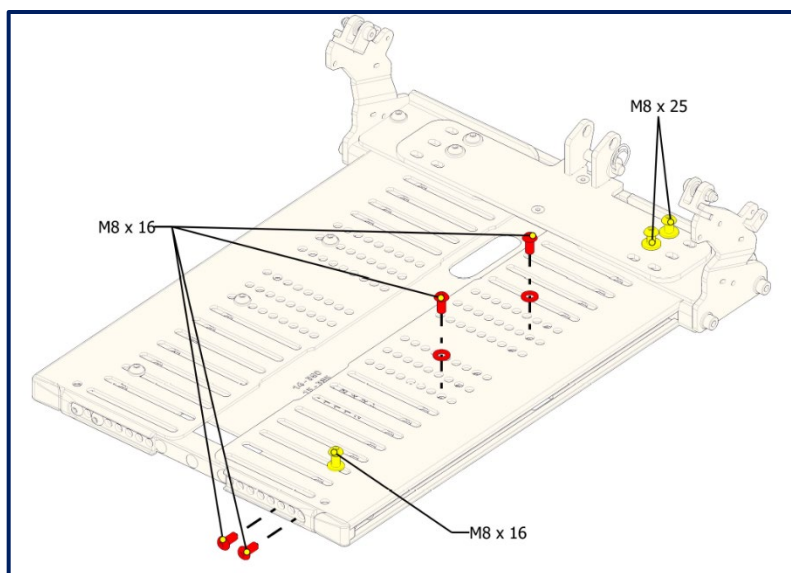
- 1.1. Locate the M6 x 16 bolts on the left side of the back assembly.
- 1.2. Using the 5 mm Allen key, unscrew and remove the one M6 x 16 mm bolt on the top rail, and the inner M6 x 16 mm bolt on the inside of the lower rail (see diagram).
- 1.3. Set bolts aside in an organized manner for later reassembly.
- 1.4. Leaving these bolts removed, proceed to next step.



##### 2. Loosen and/or remove M8 Bolts on Seat – Two Different Lengths

**Tool Required:** 5 mm Allen key

- 2.1. **M8 x 25 mm Bolts:** Locate and loosen the two M8 x 25 bolts at the rear of the seat (yellow).
- 2.2. **M8 x 16 mm Bolts:** Using this illustration as reference, loosen all M8 x 16 bolts that are in slots (yellow) and remove all M8 x 16 bolts that are in holes (red). Number and location may vary based on system configuration.
- 2.3. Organize all removed bolts by size and type to ensure proper re-installation.

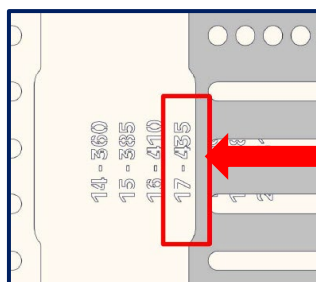
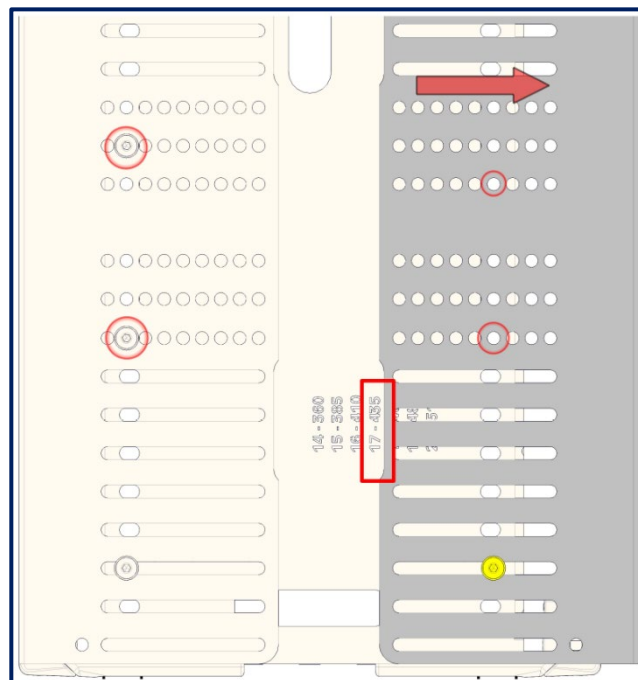


## SEAT WIDTH POSITIONING

### 3. Position Width Adjustment Plates

**Reference Information:** In Amylior technical documents, components shaded in beige are in original configuration and have not been adjusted. Components shaded in dark gray are the components being adjusted in this section of the document.

- Original Width Setting: 15" (beige). Note that bolts on the left side of image above (right side of system) that have not been removed (circled in red) are in the second hole from outside.
- NOTE: Adjusting the left side first provides visual confirmation of new width showing adjustment hole setting (red circle) and corresponding engraved measurements on seat frame.
- Each hole represents ½" of adjustment, to adjust the seat by 1" each side must be adjusted one hole.
- Refer to engraved markings on seat pan for guidance. In this example 17" (435 mm) is set using 4<sup>th</sup> hole, circled in red.



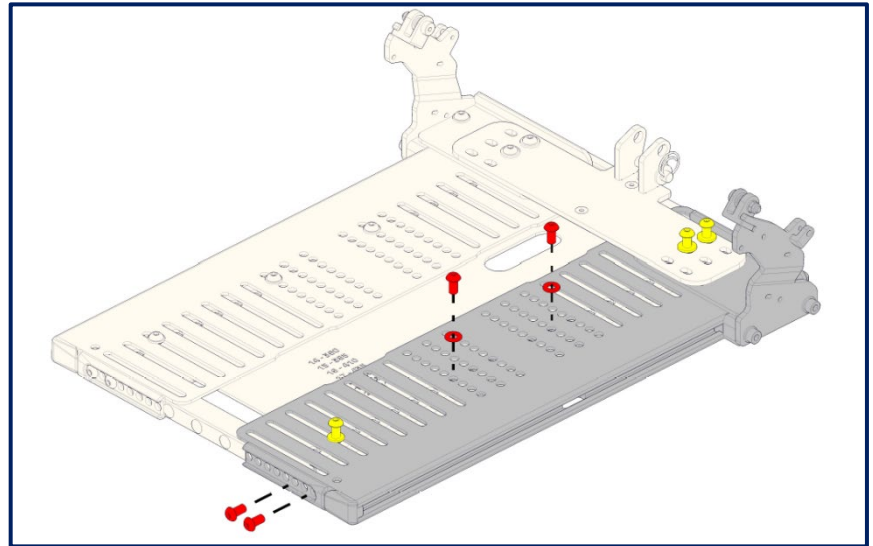
- 3.1. **Locate the two width adjustment plates** in the seat mechanism.
- 3.2. **Position plate** in the corresponding holes for desired width validating with engraved setting.
- 3.3. **Configuration example:** Fourth hole position as shown in reference above sets seat to 17" when right side is adjusted to mirror.

## ADJUSTING SIGNATURE SEAT WIDTH with RECLINING BACK (cont'd)

### 4. Secure Left-Side Seat Assembly

**Tool Required:** 5 mm Allen key

- 4.1. **Reinstall and tighten** bolts that have been removed on the left-side (red).
- 4.2. **Tighten bolts** that had only been loosened on the left-side (yellow).
- 4.3. Verify rail positioning remains correct after tightening.



## BACKREST BOLT REPLACEMENT

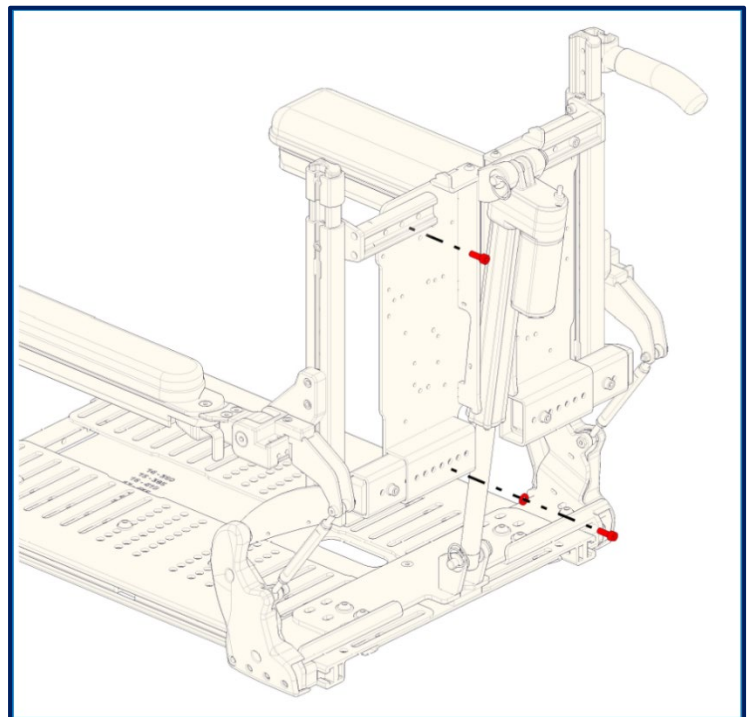
### 5. Replace Backrest Bolts

**Tool required:** 5 mm Allen key

- 5.1. **Identify available holes** in the backrest spreader bars, one on top and one on the bottom.

**NOTE:** Secure and tighten bolts on seat first as this will make it easier to identify available holes.

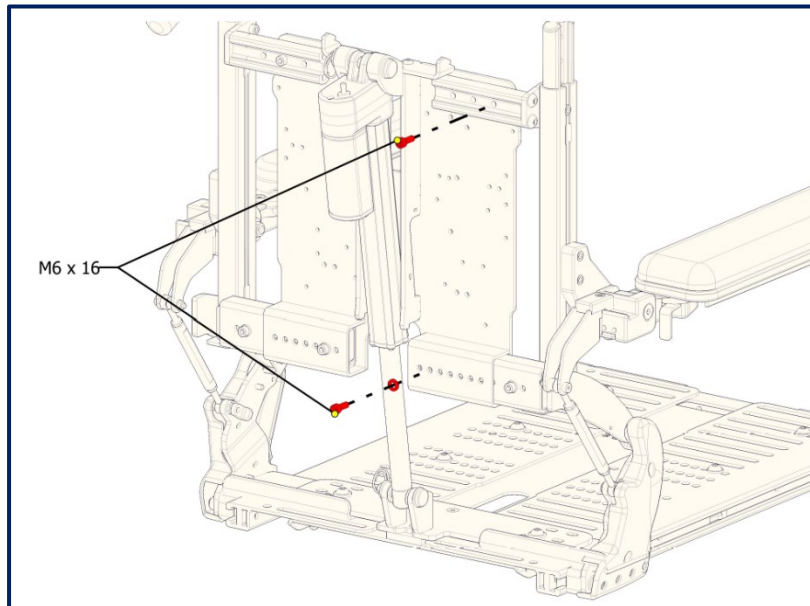
- 5.2. **Insert M6 x 16 mm threaded bolts** into available holes.
- 5.3. Tighten all backrest bolts, take care not to over tighten.
- 5.4. Ensure the backrest is properly aligned and secure.



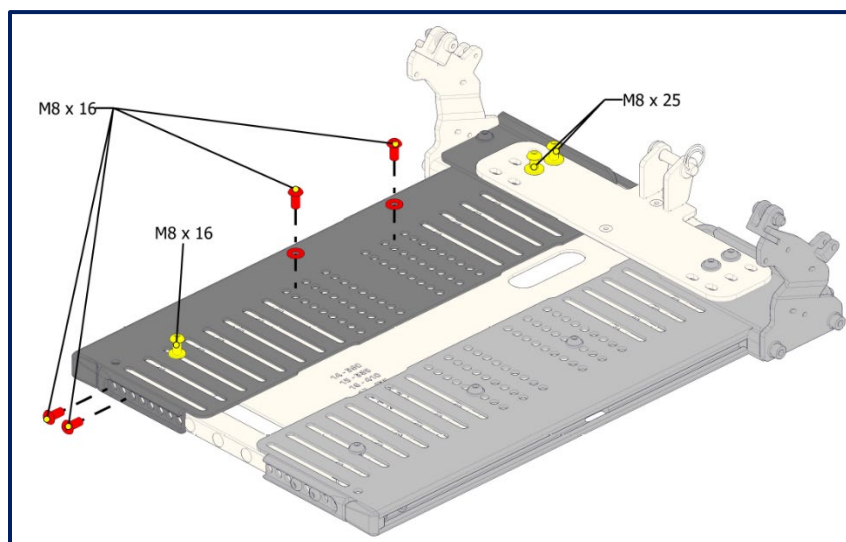
**ADJUSTING SIGNATURE SEAT WIDTH with RECLINING BACK (cont'd)**
**WIDTH ADJUSTMENT – RIGHT-SIDE**
**DISASSEMBLY AND ADJUSTMENT**
**1. Bolt Removal**

**Tool Required:** 5 mm Allen key

- 1.1. Follow same order and process as left side.
- 1.2. **M6 x 16 mm Bolts in Back Assembly (red):**  
Locate 2 bolts and remove.
- 1.3. **M8 x 25 mm Bolts in Seat (yellow):** Loosen.
- 1.4. **M8 x 16 mm Bolts in Seat (red):**  
Loosen and remove.
- 1.5. Organize bolts for reassembly.



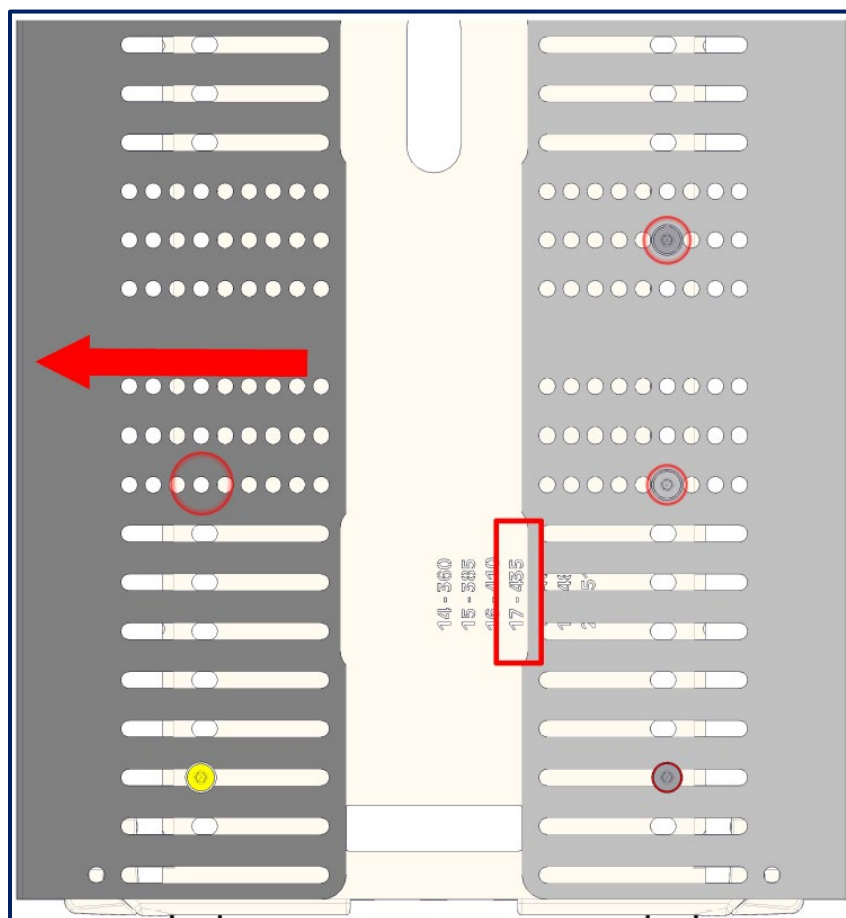
**Reference Information:** In Amylior technical documents, components shaded in beige are in original configuration and have not been adjusted. Components shaded in dark gray are the components being adjusted in this section of the document. Components in lighter gray have been referenced and adjusted earlier in the document.



## ADJUSTING SIGNATURE SEAT WIDTH with RECLINING BACK (cont'd)

### 2. Right-Side Seat Positioning

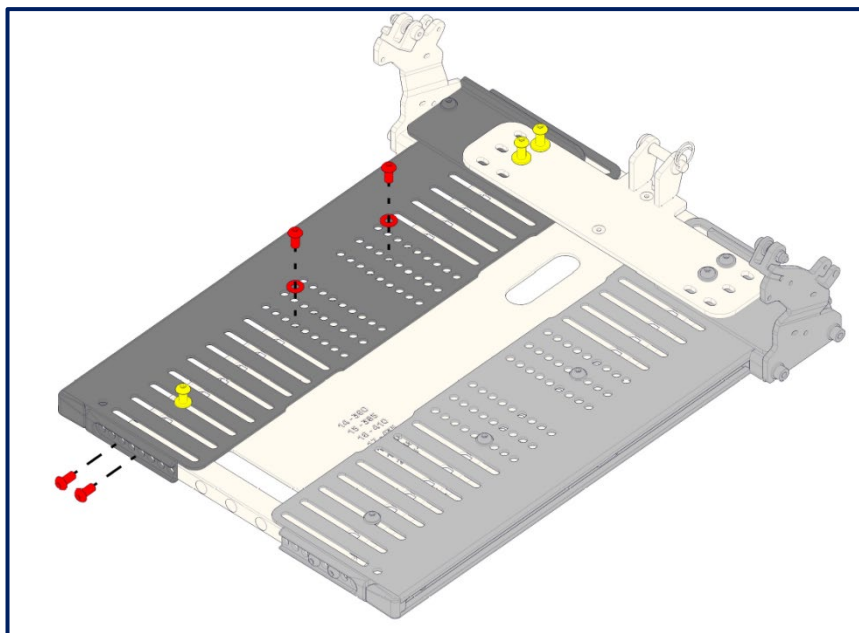
- 2.1. Draw (pull) the right-side to the point where screw insertion is possible into hole that mirrors the previously adjusted left-side (in this case, 4<sup>th</sup> hole from outside of seat, circled in red).
- 2.2. Ensure proper spacing matches the left-side adjustment.
- 2.3. Verify rail alignment before proceeding to fasten.



## FINAL ASSEMBLY

### 3. Secure Right-Side Seat Assembly

**Tool Required:** 5 mm Allen key

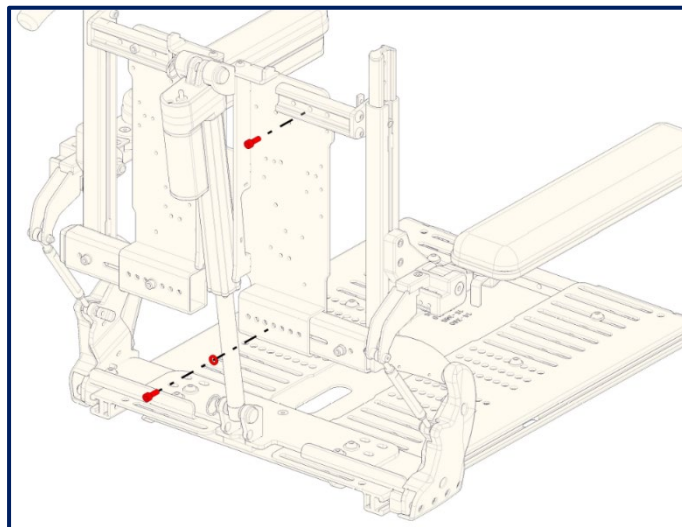


- 3.1. **Replace and tighten** all bolts on the right-side of the seat.
- 3.2. **Mirror the left-side configuration** for symmetry.
- 3.3. **Verify proper alignment** of both sides.

### 4. Final Backrest Bolt Installation

**Tool Required:** 5 mm Allen key

- 4.1. **Align and insert** two backrest bolts in the holes that become available.
- 4.2. **Tighten all bolts.**
- 4.3. **Verify backrest stability, symmetry** and proper recline function.
- 4.4. **Test complete assembly** for proper operation.



## ADJUSTING SIGNATURE SEAT WIDTH with RECLINING BACK (cont'd)

### QUALITY CONTROL & VERIFICATION

#### Final Inspection Checklist

- All bolts are properly tightened, not overtightened or cross threaded.
- Width adjustment operates smoothly.
- Recline functions correctly with no binding or squeaking.
- No loose or missing hardware.
- The seat assembly is stable and secure.
- Both sides are symmetrically adjusted.
- All safety requirements are met.

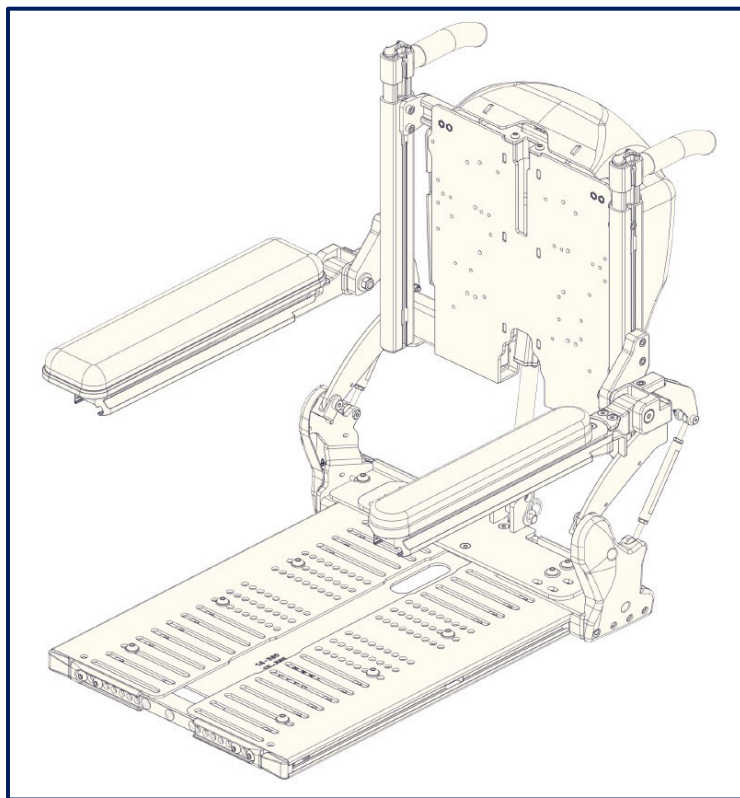
#### Functional Testing

##### 1. Width Adjustment Test:

- Verify smooth operation through full range of recline, both back and forward.
- Confirm measurement accuracy per engraving marks and corresponding bolt location(s).

##### 2. Backrest Recline Test:

- Test full recline range, back and forward.
- Check for smooth operation without binding or squeaking.



**ADJUSTING SIGNATURE SEAT WIDTH with RECLINING BACK (cont'd)**
**TROUBLESHOOTING**

Issue	Possible cause	Solution
Width adjustment binding	Misaligned width adjustment plates	Check seat rail adjustment plate and hole alignment.
Backrest loose	Bolts missing or not tightened	Re-tighten all backrest bolts.
Uneven adjustment	Asymmetrical positioning	Verify both sides match reference holes and corresponding engraved size.
Screw won't tighten	Cross-threading	Remove and restart with proper alignment.

**MAINTENANCE NOTES**

- **Periodic Check:** Verify bolt tightness periodically.
- **Inspection:** Check for wear or damage during routine maintenance.
- **Replacement:** Use only approved Amylior replacement hardware.
- **Documentation:** Record any adjustments or maintenance performed.