

INSTRUCTION GUIDE

SIGNATURE SEAT DEPTH ADJUSTMENT for NON-RECLINING and RECLINING BACKRESTS



Non-Reclining Backrest

Power/Manual Reclining Backrest



SIGNATURE SEAT DEPTH ADJUSTMENT (cont'd)

INTRODUCTION

This guide provides step-by-step instructions for adjusting the SYSTEM DEPTH on an Alltrack power wheelchair equipped with a Signature FIXED BACKREST or 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

- 6 mm Allen key (primary tool)
- 5 mm Allen key
- Work surface or appropriate workspace

SIGNATURE SEAT DEPTH ADJUSTMENT (cont'd)

PROCEDURE – DEPTH ADJUSTMENT

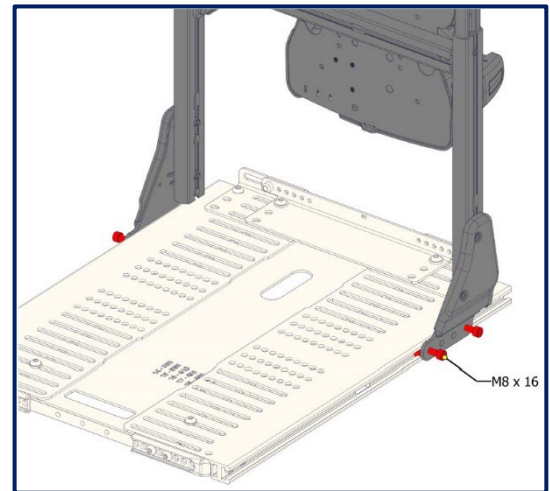
NOTE: For the depth adjustment specifications, the **Maximum Depth Limit** is achieved when the rear of the back bracket is 4" (100 mm) from the back of the seat rail.

FIXED BACK (NON-RECLINING)

1. Loosen Mounting Hardware

Tool Required: 6 mm Allen Key

- 1.1. Locate the M8 × 16 bolts on each side of the backrest bracket (two on each side).
- 1.2. Using a 6 mm Allen key, *loosen* but do not remove bolts on both sides.
- 1.3. Keep the brackets in place.

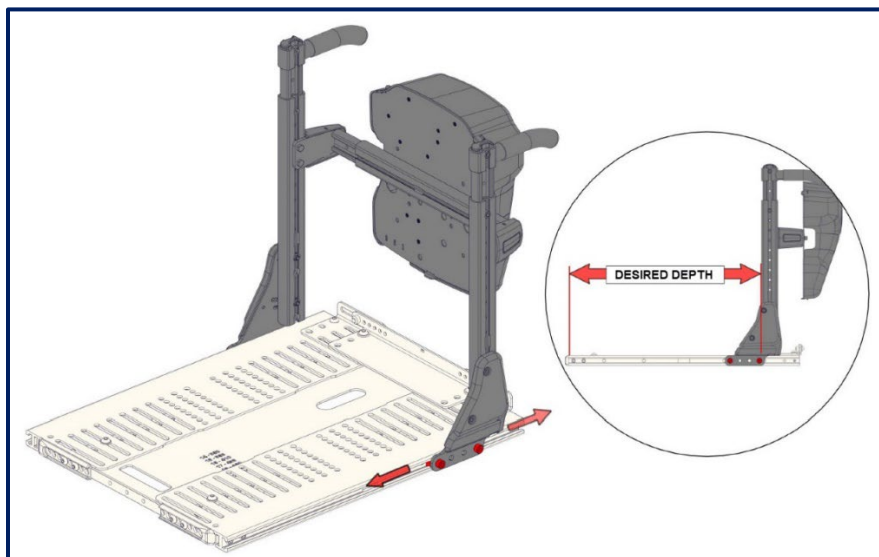


2. Adjust to Desired Depth

- 2.1 Slide the entire back assembly to achieve your desired depth.

NOTE: **Maximum Depth Limit** is achieved when the rear of the back bracket is 4" (100 mm) from the back of the seat rail.

- 2.2 Ensure seat depth is the same on both sides by measuring from the front of the back bracket to the front of the seat pan.

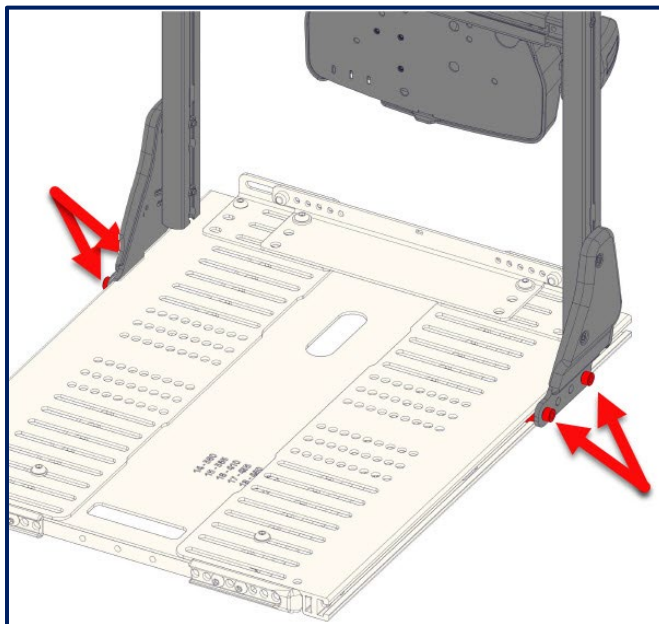


SIGNATURE SEAT DEPTH ADJUSTMENT (cont'd)

3. Tighten the Backrest Brackets

Tool Required: 6 mm Allen Key

- 3.1 Using a 6 mm Allen key, tighten the two bolts on each side.
- 3.2 Verify that the seat is secure and symmetrical.

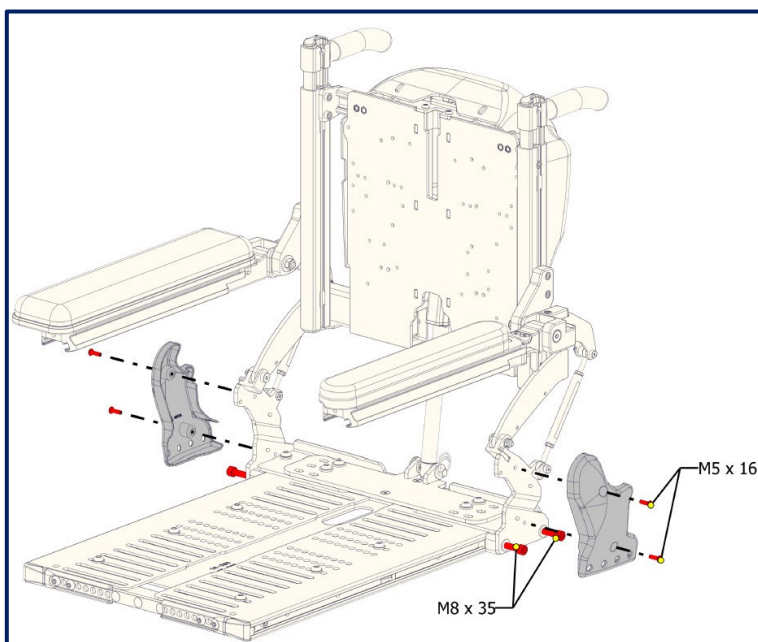


RECLINING BACK (POWER OR MANUAL)

1. Loosen Mounting Hardware

Tools Required: 5 mm Allen key and
6 mm Allen key

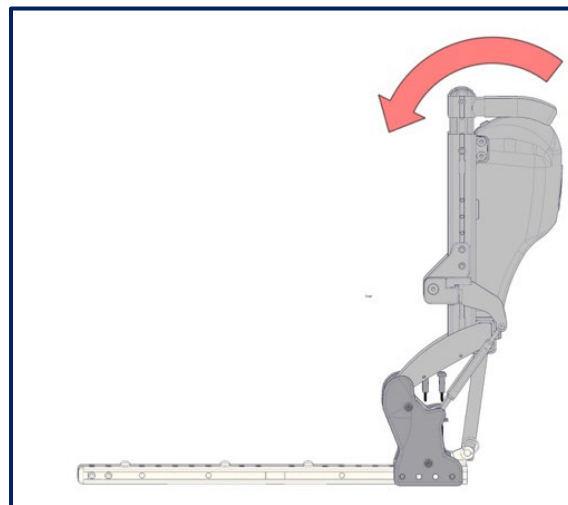
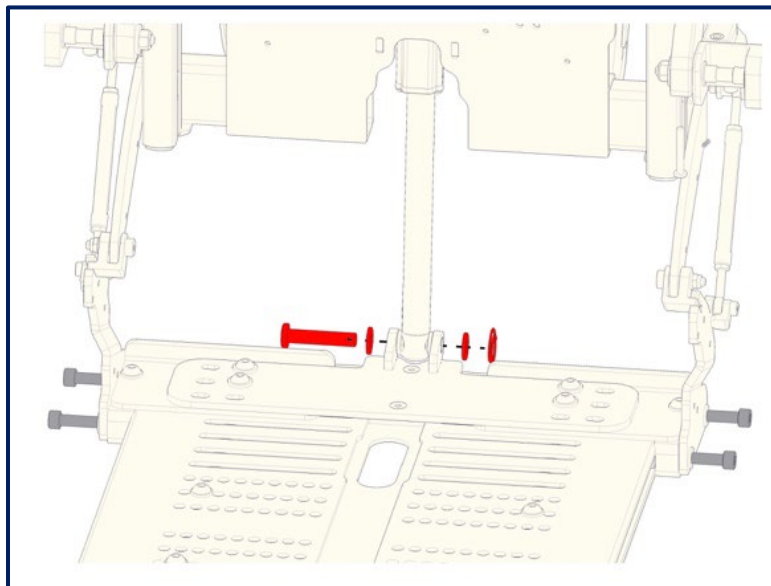
- 1.1. Using a 5 mm Allen key unscrew and remove the two M5 × 16 bolts on either side holding that secure backrest bracket shroud.
- 1.2. Using a 6 mm Allen key loosen but do not remove the M8 × 35 bolts on both sides.



SIGNATURE SEAT DEPTH ADJUSTMENT (cont'd)

2. Fold Down Reclining Back Assembly

- 2.1 Remove locking ring (cotter ring) securing actuator bolt and washer.
- 2.2 While holding the top of the back to prevent it from folding down, gently remove the pin holding the bottom of the actuator to the frame.
- 2.3 Put pin, washers and cotter ring aside for reassembly.
- 2.4 Slowly fold the backrest down to the seat pan and pay close attention to the armrests to ensure they do not damage the base shrouds.



NOTE: If the pin does not easily slide out, carefully move the backrest forward and back to assist. If needed, a rubber mallet can be used to gently tap the pin out. Ensure the backrest is being held or supported during this process to prevent it from folding unexpectedly.

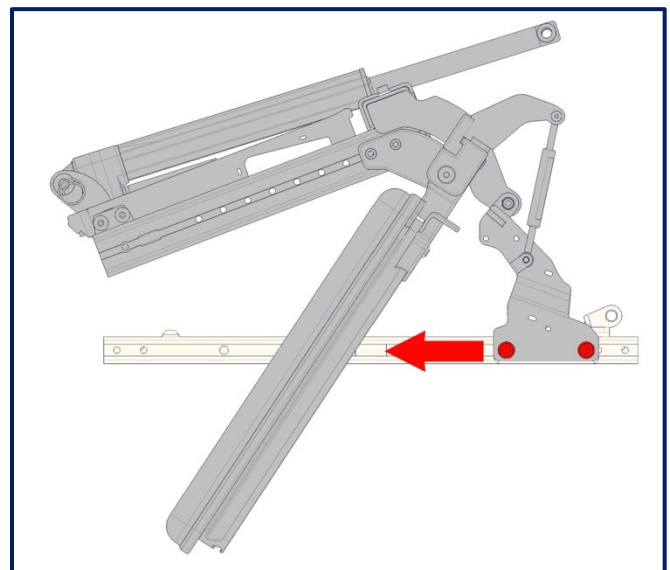
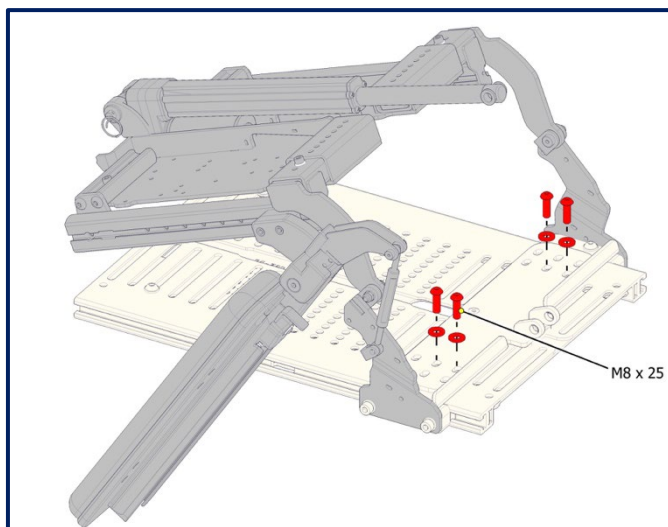
SIGNATURE SEAT DEPTH ADJUSTMENT (cont'd)

3. Remove Bolts Securing Reclining Back Plate and Move to Desired Depth

Tool Required: 6 mm Allen key

- 3.1 With reclining back assembly safely folded down and secured, use 6 mm Allen key to loosen and remove the four M8 x 25 mm bolts and washers then put aside for reassembly.
- 3.2 Slide entire reclining back assembly to desired seat depth

NOTE: If you are *increasing* seat depth (sliding recline assembly backwards), ensure a minimum distance of 4" (100 mm) is maintained from the rear of the back bracket to the end of the seat frame (rail).



SIGNATURE SEAT DEPTH ADJUSTMENT (cont'd)

4. Finalize the adjustment

4.1 With reclining back assembly still folded down, replace the the four M8 x 25 mm bolts in available holes and hand tighten all 4 to ensure they are not cross threaded, *before* fully tightening with 6 mm Allen key.

NOTE: If holes are not aligning or bolts are not easily hand tightened, do not force and cross thread. Measure depth on each side to ensure adjustment is symmetrical.

4.2 With reclining back plate secured return backrest to upright position.

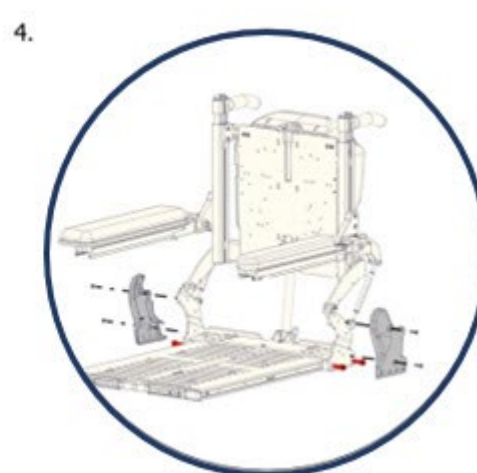
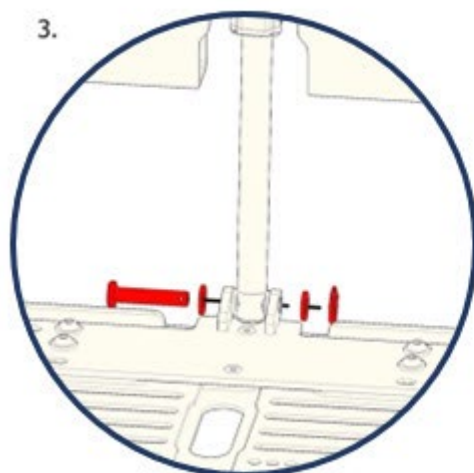
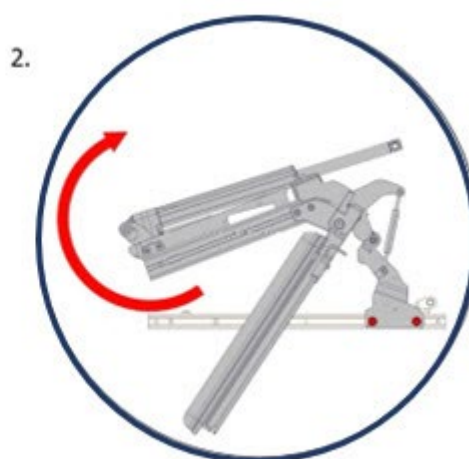
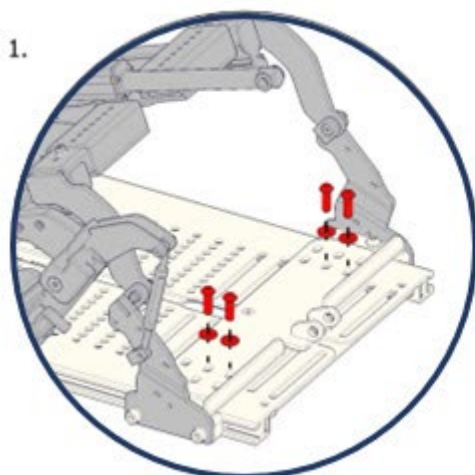
4.3 Replace locking pin removed in step 2.2.

NOTE: To avoid unexpected folding of back secure the top of the backrest while guiding pin through bracket and actuator.

4.4 Replace cotter ring.

4.5 Using a 6 mm Allen key, tighten the four M8 x 35 mm bolts (2 on each side) securing the backrest plate.

4.6 Reattach the backrest bracket shroud and using a 5 mm Allen key replace and tighten the four M5 x 16 mm (2 on each side) bolts securing the shroud



SIGNATURE SEAT DEPTH ADJUSTMENT (cont'd)
QUALITY CONTROL & VERIFICATION
Final Inspection Checklist

- Depth Measurement:** Verify depth is within 4" (100 mm) maximum limit as noted in sections 2.2 and 3.2.
- Bolt Tightness:** All bolts are properly tightened.
- Hardware Check:** Ensure there is no extra hardware.
- Reclining Actuator Pin (for reclining systems only):** Ensure reclining actuator pin is replaced and secured with cotter ring.
- Alignment:** Ensure the seat is properly aligned and symmetrical.
- Covers:** All covers are properly installed and secured.
- Function Test (reclining backrest):** Put system through full recline cycle to ensure it works smoothly without binding or squeaking.
- Visual Inspection:** No visible gaps or misalignment.

TROUBLESHOOTING

Issue	Possible cause	Solution
Seat will not adjust	Bolts too tight	Re-loosen adjustment bolts
Uneven alignment	One side not properly loosened or overtightened or asymmetrically adjusted.	Check both sides equally, verify depth on both sides as noted in section 2.3.
Bolts won't tighten or easily thread	Cross-threading	Remove and restart threading and replace bolt if necessary.

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.