

Matrix® ELAN HEADREST MOUNTING HARDWARE & PAD INSTALLATION

Our Matrix Elan Headrest Mounting Hardware is compatible with most industry standard headrests, and is designed for use with our line of Matrix Elan Headrest Pads. The headrest clamp hardware provided is designed to install into existing mounting holes on the Motion Concepts back shell.

⚠ WARNING! Risk of Serious Injury
• Injury hazard during use of the wheelchair if a headrest is wrongly adjusted or not installed! This can cause the neck to be hyperextended in the event of a collision, or when the system is tilted or reclined.

⚠ CAUTION! Risk of System Damage
• For systems equipped with power recline and ESR, always inspect/ test the headrest (down tube) for possible interference over the full range of recline. If interference occurs, the length of the down tube must be modified as necessary.

I. MATRIX ELAN HEADREST PADS:

Our lightweight Elan Headrest Pads (*sold separately*) are comprised of a dual density co-molded foam pad that surrounds an aluminum backing plate, which can be further shaped/formed to the desired contour for maximum comfort. Our Elan headrest covers are available in our standard Startex™ fabric or with an optional infection control (-IC) cover (reversed-Startex™). All headrest covers are moisture resistant and breathable, and may be removed for laundering if necessary. Instructions for installing the Elan Headrest Pads are provided in **Section II**.

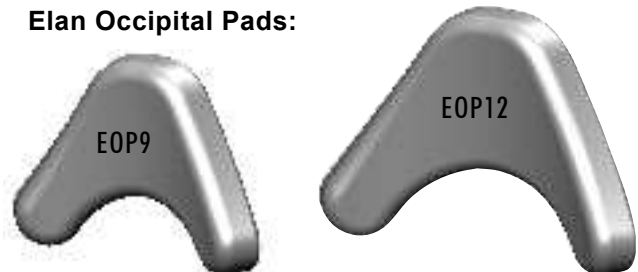
Elan Standard Pads:



Elan 4-Point Pads:



Elan Occipital Pads:



HEADREST PAD DESCRIPTION		MODEL#	
		Standard Fabric Cover	Infection Control (Wipeable) Cover
Elan Standard Pad	6" x 3.5" (15cm x 9cm)	ESP6	ESP6-IC
Elan Standard Pad	10" x 5" (25cm x 13cm)	ESP10	ESP10-IC
Elan Standard Pad	14" x 5" (36cm x 13cm)	ESP14	ESP14-IC
Elan Occipital Pad	9" x 7" (23cm x 18cm)	EOP9	EOP9-IC
Elan Occipital Pad	12" x 8" (30cm x 20cm)	EOP12	EOP12-IC
Elan 4-Point Pad-sm	9" x 7" (23cm x 28cm)	E4PTSM	E4PTSM-IC
Elan 4-Point Pad	11" x 10" (28cm x 26cm)	E4POINT	E4POINT-IC



II. ELAN MOUNTING HARDWARE INSTALLATION:

Our Matrix Elan Headrest Hardware may be combined with any OEM headrest pad fitted with standard lock-ball and collar hardware, including our Motion Concepts Elan Headrest Pads (refer to **Section I.**). The installation instructions provided below are applicable to the following Elan mounting hardware options:

- **MEHW:** Matrix Elan Mounting Hardware, standard-dual link, post length 14" (356mm);
- **MEMH:** Matrix Elan Mini Hardware, standard-dual link, post length 10" (254mm);
- **MEHW-EXT:** Matrix Elan Mounting Hardware, extended-3-link, post length 14" (356mm)

 **CAUTION!** During the Elan Headrest Installation/Set-up, be certain to adhere to the following warnings:

- *DO NOT fully disassemble the headrest linkage hardware.*
- *For angle adjustment loosen only the designated adjustment screws in the linkage assembly by approx. 1/2 turn. (see **Fig. 2** for an overview of the Elan Linkage Adjustments)*

INSTALLATION/ADJUSTMENT INSTRUCTIONS:

TOOLS REQUIRED: Hex Keys 2.5mm / 4mm (provided); Hacksaw, Power Drill, 6mm Drill Bit

1. Secure the headrest clamp onto the back shell (or headrest adapter plate) using the hardware provided (**Fig.1(A)**)
2. Install the headrest pad onto the Elan hardware using the headrest mounting ring /hardware provided. (**Fig.1(B)**)
3. Loosen/remove the lower D-Clamp from vertical mounting post² (using 2.5mm hex key). (**Fig, 1(C)**).
4. Slide the vertical mounting post into the clamp assembly and adjust the overall height of the headrest post pad to the desired position (by adjusting the upper D-Ring position as needed). Tighten the clamp (knob) to secure the headrest assembly in place. (**Fig 1(C)**).
5. Adjust the headrest pad to the desired depth and angle according to the needs of the user by adjusting the three pivot points (adjustment screws²) on the standard (dual-link) assembly, or the four pivot points (adjustment screws²) on the extended (3-link) assembly, in combination with the upper and lower rotational pivots (refer to **Fig. 2- Elan Linkage Adjustment**).
6. Once the final headrest position is established, ensure all pivots and headrest hardware are fully tightened.
7. Secure the Lower D-Ring onto the vertical post so that it rest flush with the bottom of the clamp assembly (to prevent slipping).

¹**NOTE:** If necessary, the vertical headrest post can be modified (cut*) in order to prevent any collision interference along the back of the seating system. (*After cutting the post, the plastic end cap in the bottom of the post can be removed and re-installed into the newly cut post).

²**NOTE:** Optional **Lever Handles** (x2), may be installed in place of the adjustment screws for easier adjustment of the Elan hardware- refer to the Installation Instructions provided below, and **Fig. 3** for an overview of the proper Lever Handle Installation.

Optional Lever Handle Installation:

Installation on the Dual-Link Hardware:

Carefully remove the adjustment screw from the upper and/or lower pivot only (leaving the hex insert in place), then screw the lever handle (and washer) into the hex insert. (refer to **Fig. 3A**)

Installation on the Extended (3-Link) Hardware:

Ensure the lever handles are offset by at least one pivot point to avoid interference. Carefully remove the adjustment screw from the desired pivot point (leaving the hex insert in place), then screw the lever handle (and washer) into the hex insert. (see **Fig. 3B**)

Fig. 1. MEHW, MEMH and MEHW-EXT Installation/Adjustment Instructions:

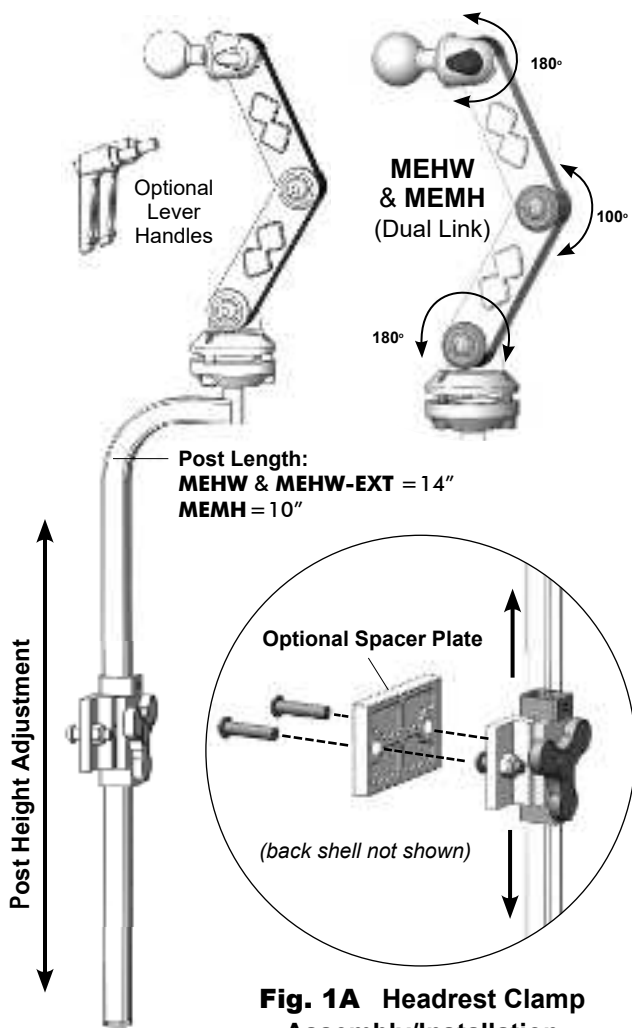


Fig. 1A Headrest Clamp Assembly/Installation

Fig. 1B Headrest Pad Installation

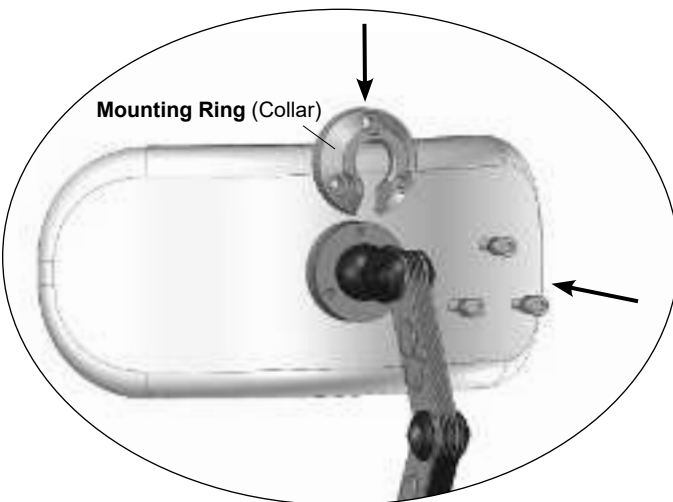


Fig. 1C D-Ring Adjustment/Installation

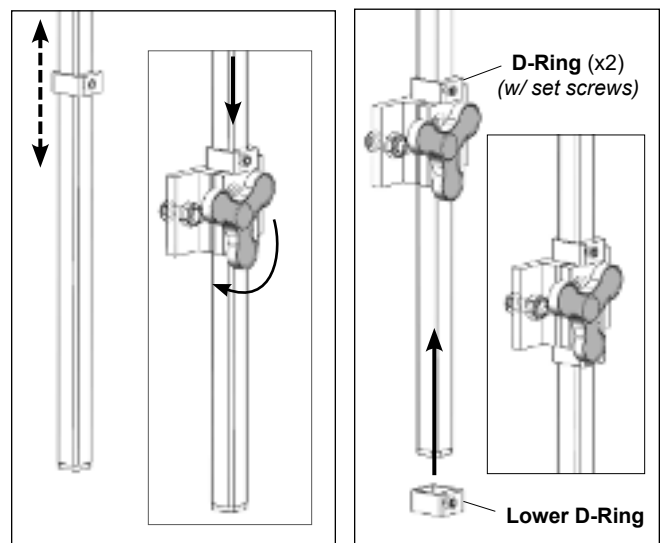


Fig. 2 Elan Linkage Adjustment

(note: the 4mm hex key is used for all headrest pivot adjustments)

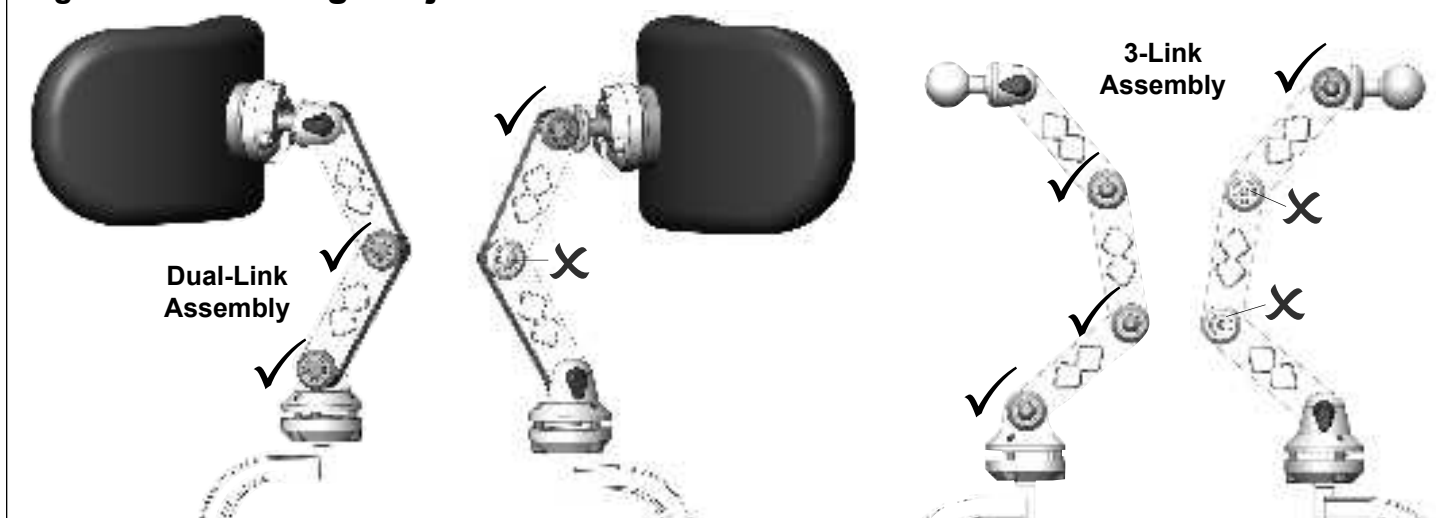
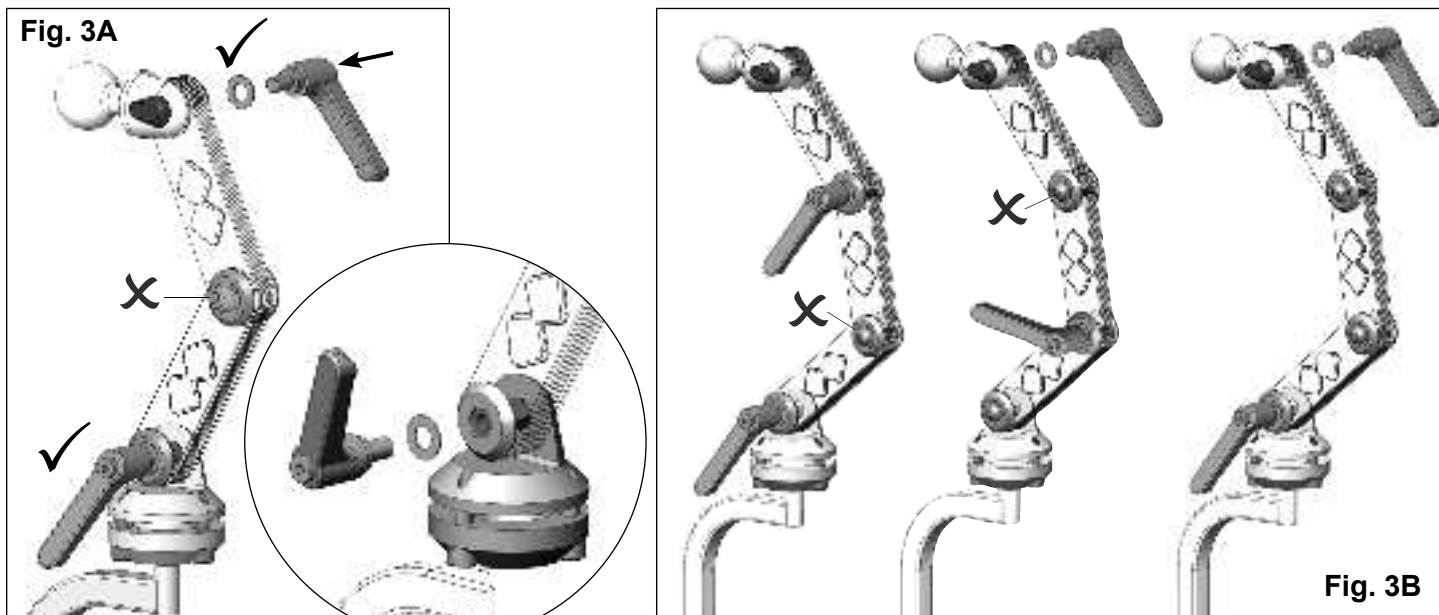


Fig. 3 Lever Handle Installation (Optional)



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