

Folder Adaptor Bar Mounting Instructions

NOTE: Refer to the separate directions provided for axle clamp mounting.

Folder Adaptor Set-Up

The attachment hardware for folding frame wheelchairs is an adjustable length adaptor bar that attaches to the drive unit and engages the wheelchair's quick-release axle tips [or other part if these are recessed/inaccessible - see separate Insert instructions].

First, verify that you have the correct adaptor attachment based on the size of the rear wheels. The attachment size is labeled on its bottom side with either a 24, 25 or 26 (Fig. A). See the chart below for the mount that goes with each wheelchair rear wheel/tire size.

22" (501) Wheel / Tire	Use 24 attachment
24" (540) Wheel / Tire	Use 24 attachment
25" (559) Wheel / Tire	Use 25 attachment
26" (590) Wheel / Tire	Use 26 attachment



End Tube	Wheelchair Seat Widths
Narrow [MX2-4FN]	Up to 13" (330 mm)
Regular [MX2-4FR]	14" (356 mm) to 18" (457 mm)
Wide [MX2-4FW]	19" (483 mm) and Up

Next you will want to adjust the adaptor bar to the correct width for the wheelchair. Loosen the set screws [do not remove completely] on the end tubes so that the bars can slide along the shaft of the adaptor attachment (Fig. B). The chart above specifies which end tubes most likely work with different folding wheelchair seat widths.

NOTE: If the quick-release axle tips are recessed or not accessible, use the provided inserts and instructions to engage another part of the wheelchair before continuing.

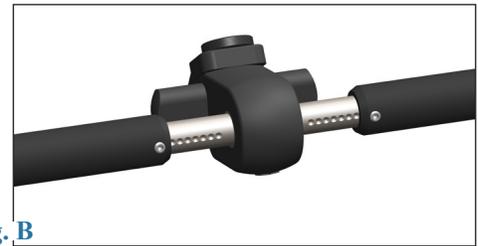
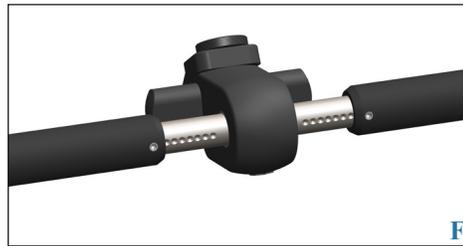


Fig. B

While looking at the rear of the chair, hold the adaptor bar, so that the "T" bar is away from you and you can see the white stripes on the back of the end tubes. Place one of the end caps over one of the axle tips and slide the other end out and place it over the opposite axle tip. Now move the adaptor attachment until it is centered (Fig. C). Note the number of dimples visible on the bar of the adaptor attachment [they should be the same number on both sides] (Fig. D). Remove the assembly and move the adjuster bars outward so that you can see the same amount of dimples that you noted before. Then move it five (5) more further for consideration of the spring loaded end caps [i.e. you count two (2) exposed dimples then move the adjuster bars out so you have seven (7) exposed dimples] (Fig. E). Position the set screws in the correct dimples then tighten, checking so the correct number of dimples show on each side.

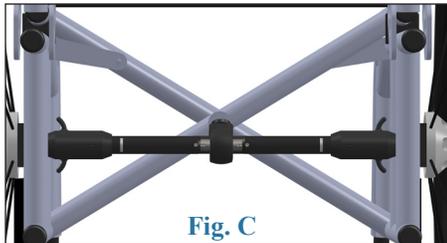


Fig. C

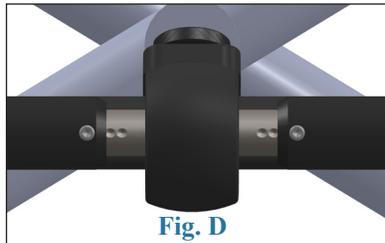


Fig. D

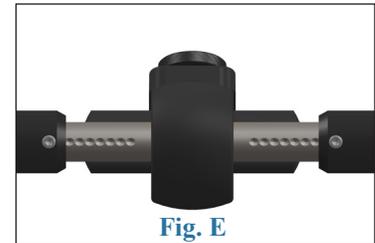


Fig. E

Next mount the folding adaptor bar onto the chair, again with the "T" bar facing away from. Place one end cap over the axle tip. Grabbing the other end cap, compress the springs inside the bar (Fig. F) and place over the opposite axle tip (Fig. G). If set up properly, the inside edges of the end caps will be within the white strips of the tube (Fig. H). If not, adjust the number of dimples visible as needed to achieve the proper spring pre-load setting as indicated by the end caps edge being over the white strips. Once this is set with the proper amount of pre-load, tighten the other two set screws [one on each side that don't engage dimples] to help secure the end tubes.

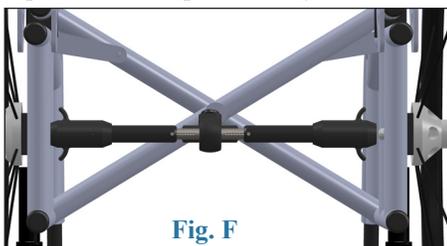


Fig. F

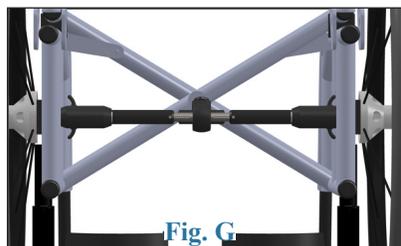


Fig. G

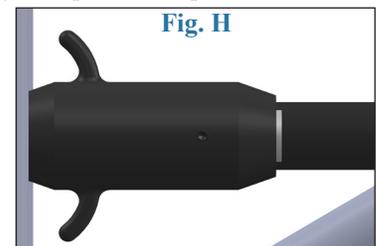


Fig. H

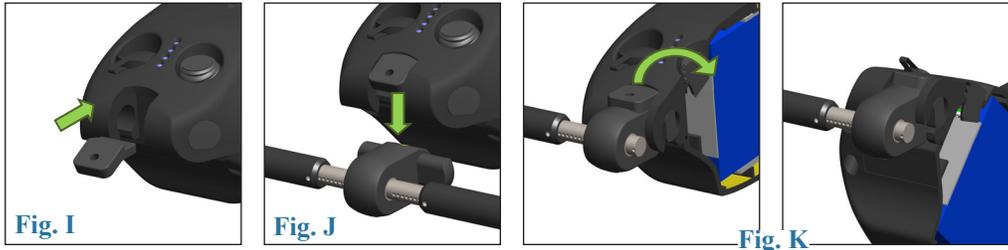


Adjustments made to the wheelchair set-up could affect the orientation of the folding adaptor bar. Adjust the adaptor bar whenever changes are made to the chair.

Folder Adaptor Bar Mounting Instructions (continued)

Drive Unit / Folder Adaptor Mounting

Once set-up is completed, mounting of the drive unit to the adaptor bar is needed. The drive unit should be pre-attached to the folder adaptor bar prior to installation onto the wheelchair. First, slide the custom fit rubber stopper into the gap on the drive unit (Fig. I). Lower the drive unit over the attachment protrusions (Fig. J) and rotate downward until it stops (Fig. K).

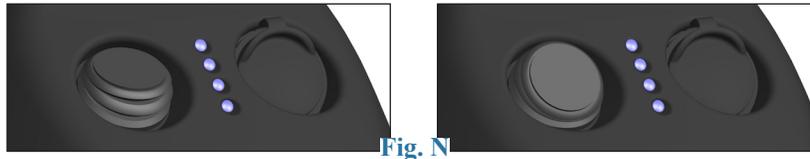


Fastened together using the provided thumb screw (Fig. L), thus securing the drive unit to the adaptor bar (Fig. M).

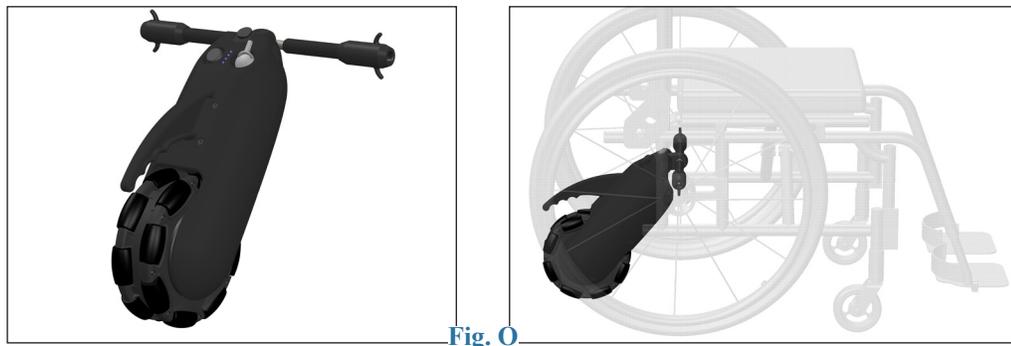


Drive Unit Attachment

Making sure the wristband is off, power on the drive unit by flipping the toggle switch to the on position prior to attachment. “On” is pushing the toggle away from the front of the drive unit (Fig. N). You will get a loud beep and the blue LEDs will illuminate as indication.



The two spring loaded end caps engage the quick-release axle tips of the folding frame wheelchair that protrude out of the axle receiver plugs. These spring loaded end caps are compressible to allow for clearance and then released to be positioned over these axle tips (Fig. O). The tension force of the springs constantly push out to prevent the adaptor bar from coming off the wheelchair until it is desired, at which point the end caps are compressed and the adaptor bar/drive unit are removed.



If buttons were purchased, refer to their separate instructions for mounting directions. The buttons plug into the drive unit using the magnetic connector that snaps into the receptacle on the drive unit housing (Fig. P).

Refer to the User's Manual for SmartDrive operation.

