

Assembly Instructions for Mobile Aisle Mechanical Assist

Mobile Base Assembly:

1. Assemble the mobile aisle rectangular base with the Mobile End Wheels (MEW) front drive and install the drive shafts as per the Mobile Base Assembly drawing shown in **Figure 1** below.
2. Place the mobile base on the mobile track. Assemble shelving on the mobile base, as outlined in the shelving assembly instructions, which are included in the Post Connector Package.

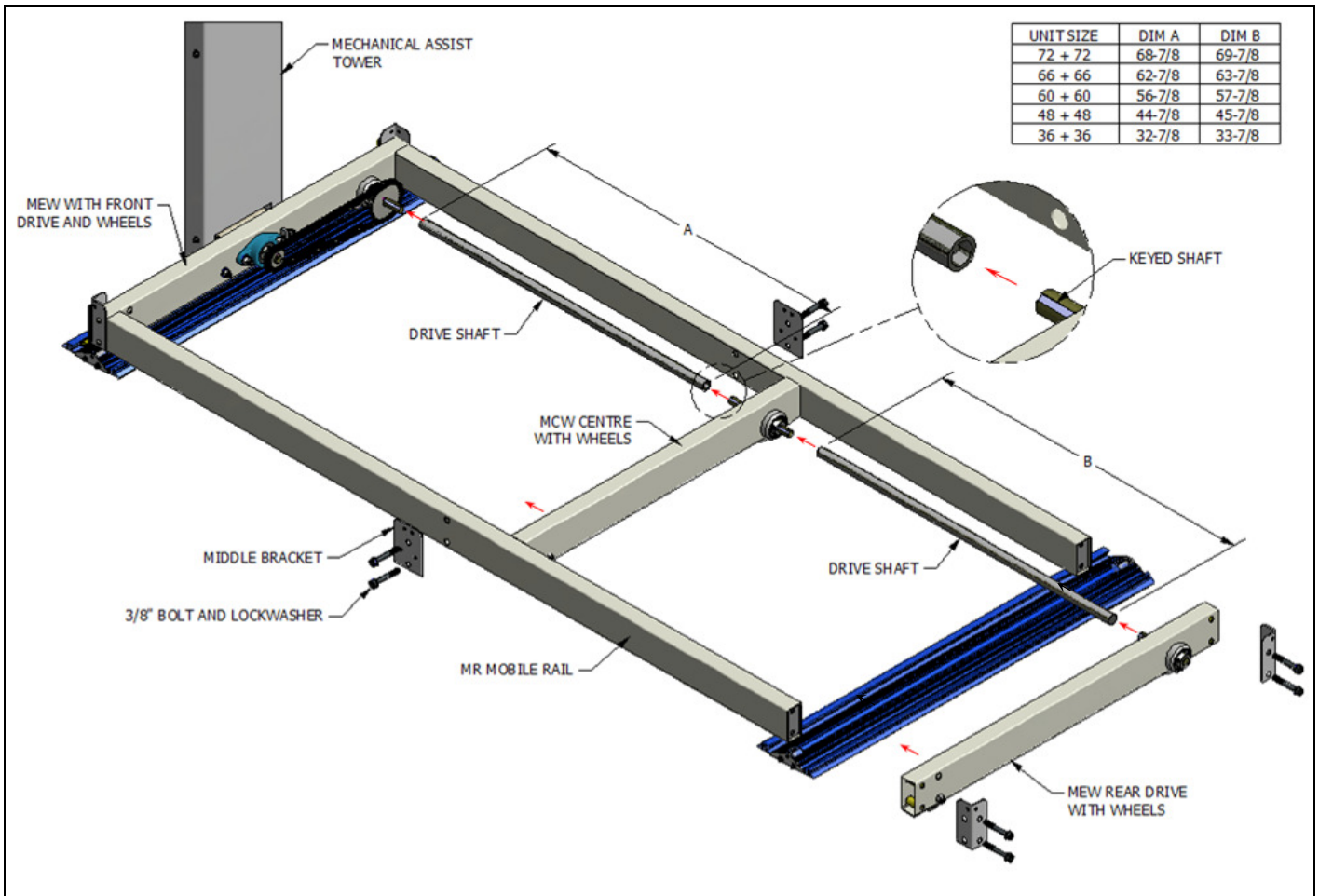


Figure 1: Mobile Base Assembly

Mechanical Assist Assembly:

1. Remove the tower cover from the **Mechanical Assist** that houses the chain, sprocket and crank blocks. **Note:** The hub and steering wheel assembly are installed last.
2. Attach the **Mechanical Assist** to the mobile base **MEW front drive** sprocket on the outside. Remove the two 5/16 inch locking nuts and washers from each side of the sprocket, as shown in **Figure 2**. Place the Mechanical Assist with the slots at the bottom over the 5/16 inch

carriage bolts. Place the two 5/16" locking nuts and washers back on and tighten to hold but leave loose enough to allow for chain adjustment.

3. Place the chain over the sprocket on the front drive. Use the two adjusting bolts inserted in the rivet nuts (captive nuts) to tighten the chain. There should be a little give to the chain. Now tighten the two 5/16" locking nuts and washers. See **Figure 2** below.

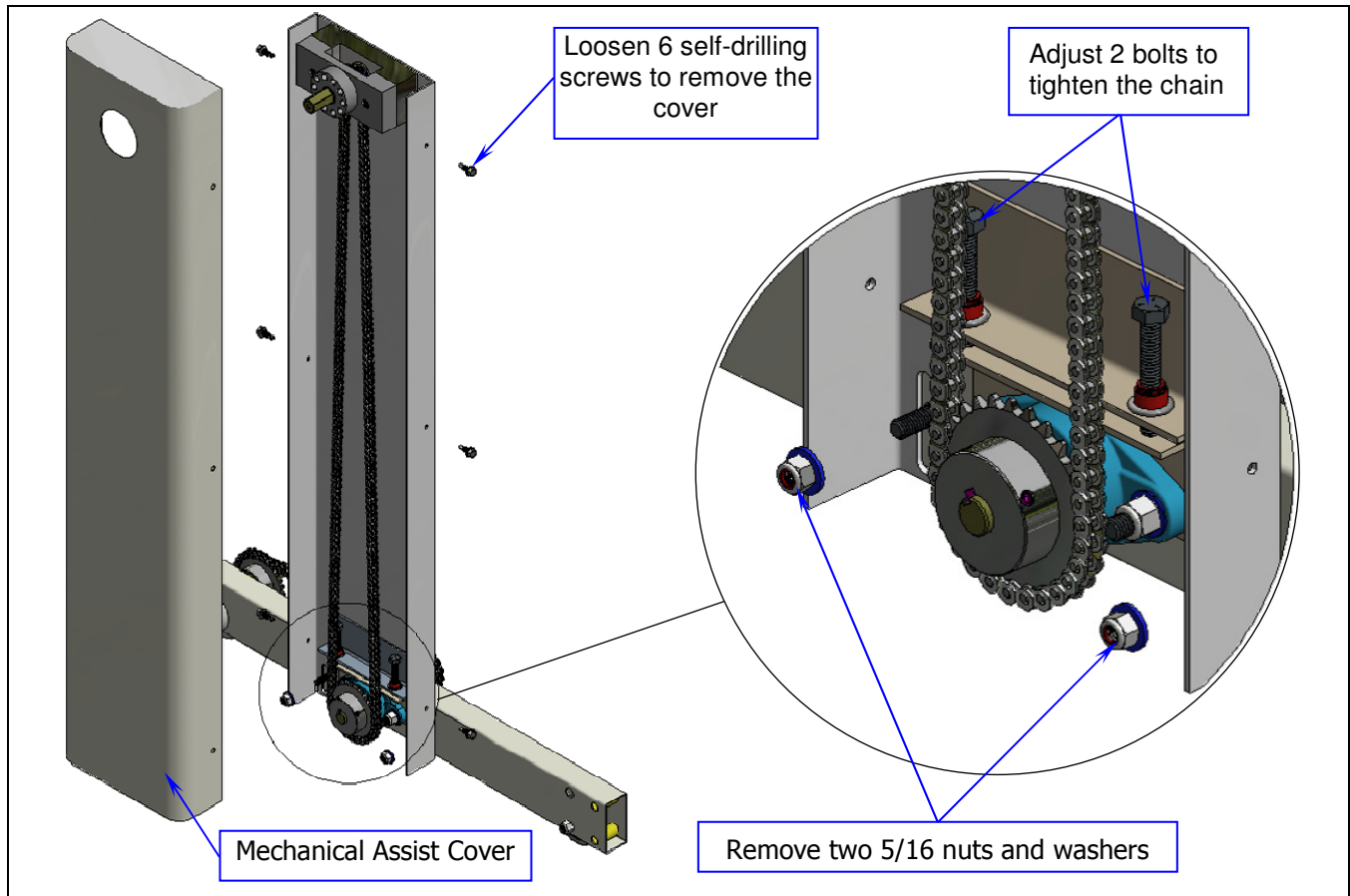


Figure 2: Mechanical Assist Installation and Chain adjustment

4. There is a slot at the back of the mechanical assist casing located approximately one foot down from the top. This slot allows you to mount and secure the mechanical assist unit to a centre shelving post on back-to-back units. When a single shelving unit is used, mount to a TRB Support. Three self-drilling screws are supplied for mounting (located in the Drive Handle Assembly box). See **Figure 3** below.

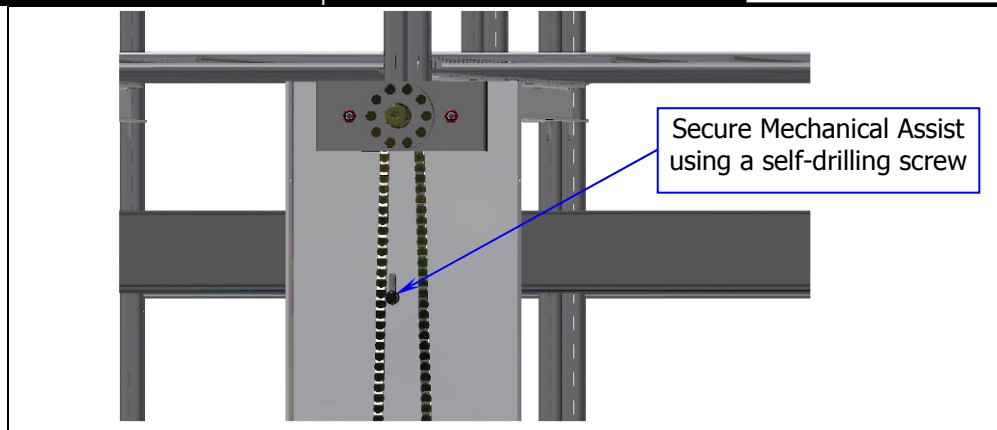


Figure 3: Secure Mechanical Assist to a centre shelving post

5. Replace the casing cover on the mechanical assist unit.
6. In a separate box, labeled Mechanical Assist Drive Handle Assembly, remove the drive handle installation components consisting of a drive handle assembly, washer ring, locking pin, threaded ball knob, centre cap, aluminum hub and three #14 x 3/4" tek screws.
7. Slide the **Aluminum Hub** onto the drive spindle until it is butted against the retaining ring. The hub has three socket head setscrews. Using the supplied Allen key, tighten the **three setscrews** firmly on the shaft. See **Figure 4** below

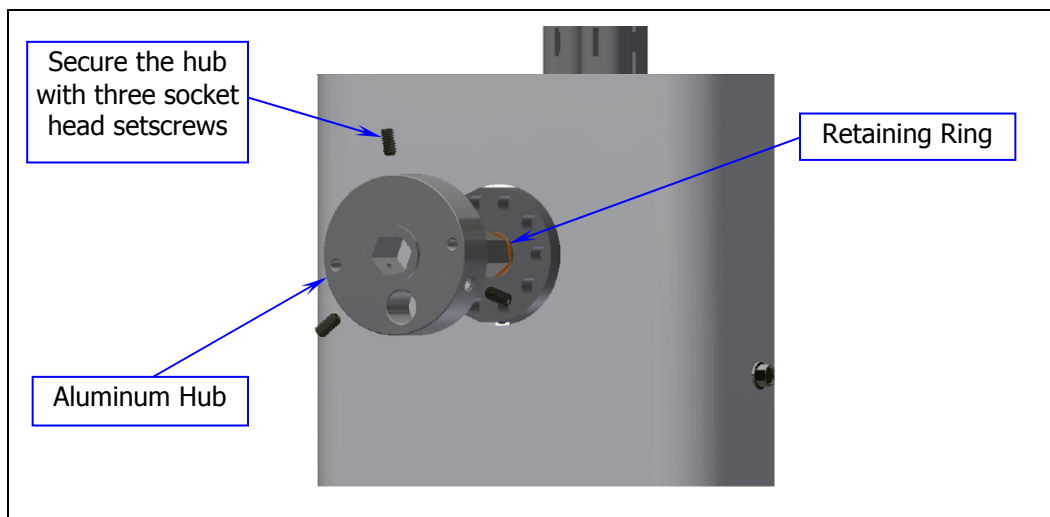


Figure 4: Aluminum Hub installation

8. Rotate the hub so that the big hole on it aligns with one of the **Front Crank Block** holes.
9. Insert the **Locking Pin** into the big hole until it bottoms out and the aluminum hub is locked in.
10. Slide the **Drive Handle Assembly** onto the drive spindle. Aside from the centre hole, the drive handle has one larger and two slightly smaller holes. The locking pin fits into the larger hole while the two smaller holes should align with the threaded holes on the hub.

11. Loosely secure the drive handle on to the drive spindle with the washer ring and socket head cap screw. Then, fasten the two socket cap screws into the two adjacent holes. Tighten all three cap screws.
12. Align the locking pin with the drive handle centre cap hole and press the cover until it snaps into place.
13. Install the threaded ball knob on to the end of locking pin. See Figure 5.
14. Test the drive handle assembly by turning the drive handle while locking/unlocking the locking pin. The Shelving Unit should slide to either side when the pin is in unlocked position (locking pin disengaged from the crank block). Note: Refer to previous steps if further tower chain tension adjustment is required.

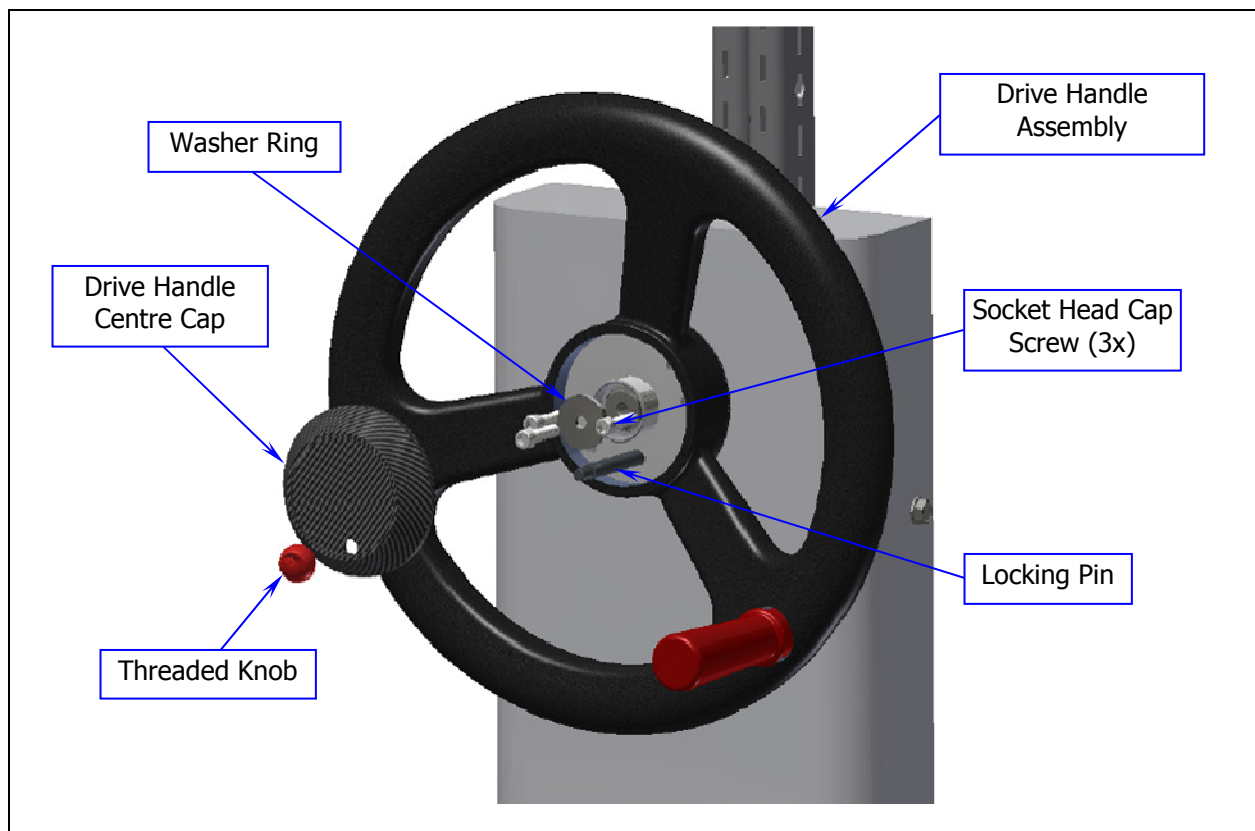




Figure 5: Drive Handle Assembly installation

Chain Tension Adjustment:

Note: The Mechanical Assist front drive tension has been pre-set. If the chain on the front drive becomes too loose follow the steps below.

1. To set chain tension on MECHANICAL END RAIL, tighten the chain tension screw.
2. If the adjusting screw bottoms out, remove a link or replace the chain.
3. Loosen the chain tension screw until the end of the thread is flush with the treaded tab it passes through.
4. Loosen the bearing housing bolts.
5. Remove the existing chain and remove a link or replace with new chain.
6. Re-tighten the bearing housing bolts making sure it is flush against the adjusting tab.
7. Adjust the chain tension by turning the chain tension screw until the chain has sufficient tension but is free moving.

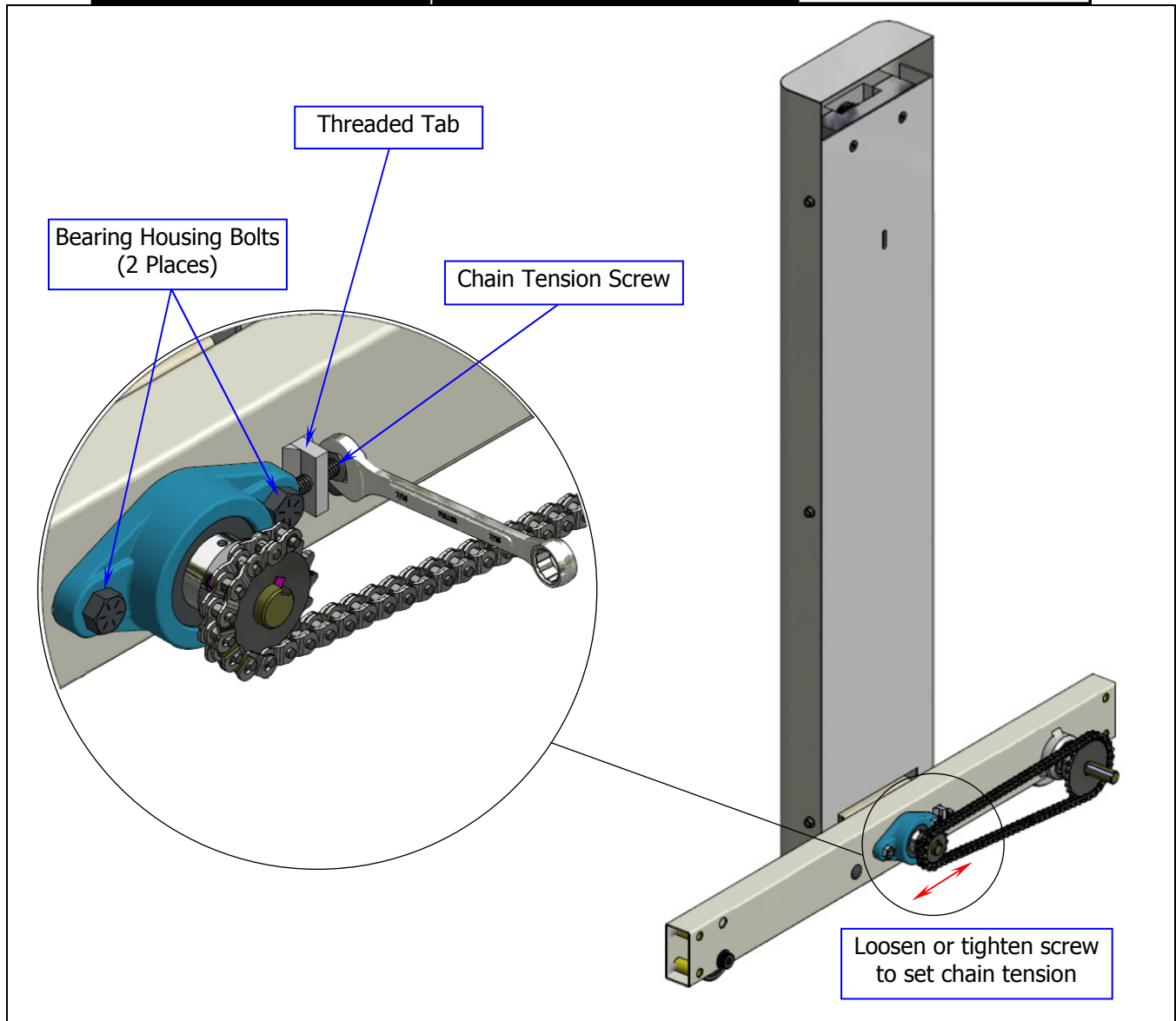


Figure 6: Mechanical End Rail chain tension adjustment






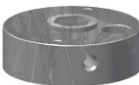





Figure 7: Back-to-back Trim-Line shelving unit with Mechanical Assist

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Appendix A:

Drive Handle Assembly Parts List

Item	Qty	Description	Model
1	1	Drive Handle assembly	
2	1	Washer Ring	
3	1	Locking Pin	
4	1	Threaded Ball Knob	
5	1	Drive Handle Centre Cap	
6	1	Aluminum Hub (Complete with 3 socket head setscrews)	
7	3	#14 x 3/4" Hex Head Tek Screw	
8	3	1/4"-20 x 1.0in Socket Head Cap Screw	
9	1	1/8" Allen Key	
10	1	3/16" Allen Key	