

Instruction Sheet: Vertica Stainless Steel Arm

Spring Assembly Replacement Instructions



Tools required: T40 Torx® wrench
3/16" Hex wrench
3/32" Hex wrench

Note

The enclosure weight on the arm must be supported by an alternate method when adjustments are being made.



Warning

The STRONGARM Vertica Arm uses pressurized gas springs as the counterbalancing force for the vertical repositioning feature of the arm. Personnel should not be under the arm at any time while performing adjustment procedures. Personal injury could result.

1. Raise the Vertica arm to the top of travel. This is the servicing position.
2. Support enclosure or other weighted device attached to the arm. The gas springs should be completely unloaded for servicing.

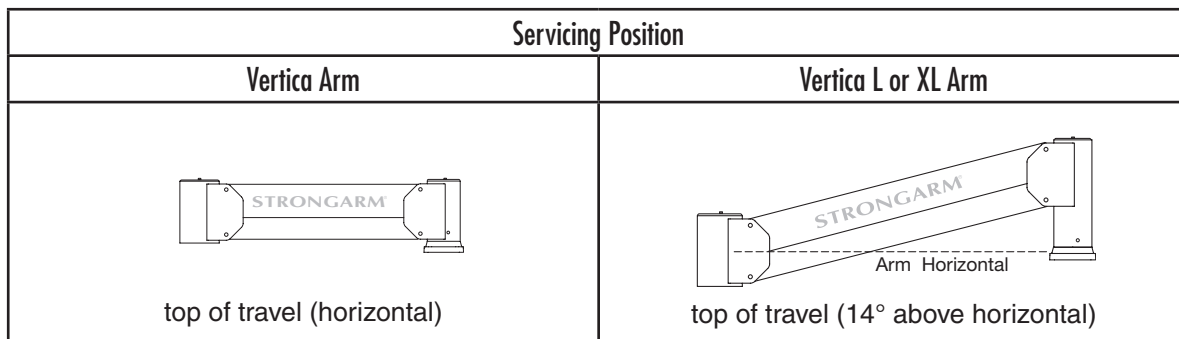


Figure 1 Position for Servicing

Disassembly:

2. Remove the (2) Torx buttonhead screws (T40 driver) at Arm Axle 1. If the axle turns inside the top half of the arm, insert a 3/16" hex wrench in the hole of the removed Torx buttonhead screw and capture the hex bore inside the axle, allowing removal of the second screw.

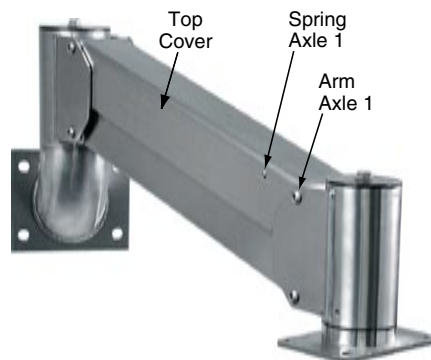


Figure 2 Location of Axles

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3. Push Spring Axle 1 out by removing one of the two 8-32 x ¼" buttonhead screws at Spring Axle 1.
4. Raise and tie up the top cover as high as possible to expose spring assembly.
5. Remove the cable from the clevis lever by pulling the cable sheath out of the slot in the clevis block and turning the cable 90°.

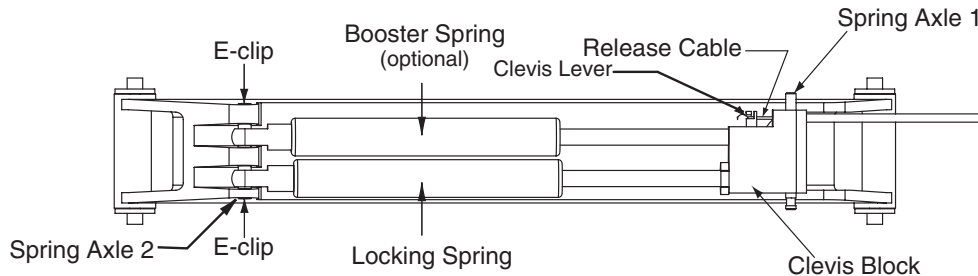


Figure 3 Inside View of Vertica Arm with Top Cover Removed

6. Remove Spring Axle 2 by removing one of the E-clips at each end and gently tapping the axle out.
7. Remove damaged spring assembly and replace with new spring assembly.

Re-assembly

8. Install Spring Axle 2 and secure with E-clips.
9. Install release cable into clevis lever with 90° motion.
10. Slide release cable sheath into clevis hole. Sheath should set in approximately ¼" into clevis block.
11. Install Spring Axle 1 through top cover and clevis block. Lower the top cover to carefully align hole in top cover with hole in clevis block. (This may require the arm being lowered slightly.) Axle should slide in place with finger pressure. Do not force axle in place. Secure axle with the (2) 8-32 buttonhead screws.
12. Replace Arm Axle 1 and (2) Torx buttonhead screws.
13. Carefully remove support from arm and check for proper operation of release handle. Perform **Release Cable Adjustment** as necessary.