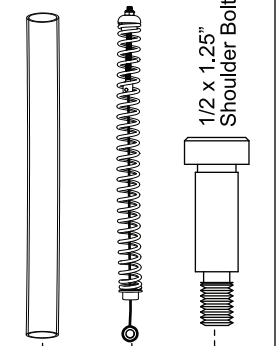
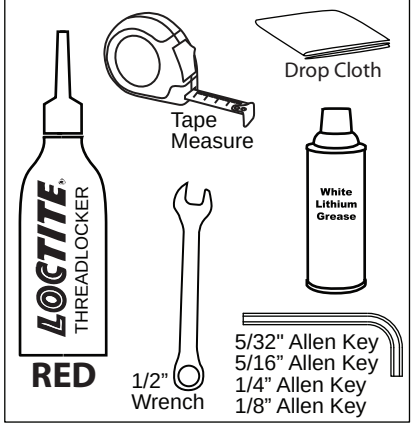
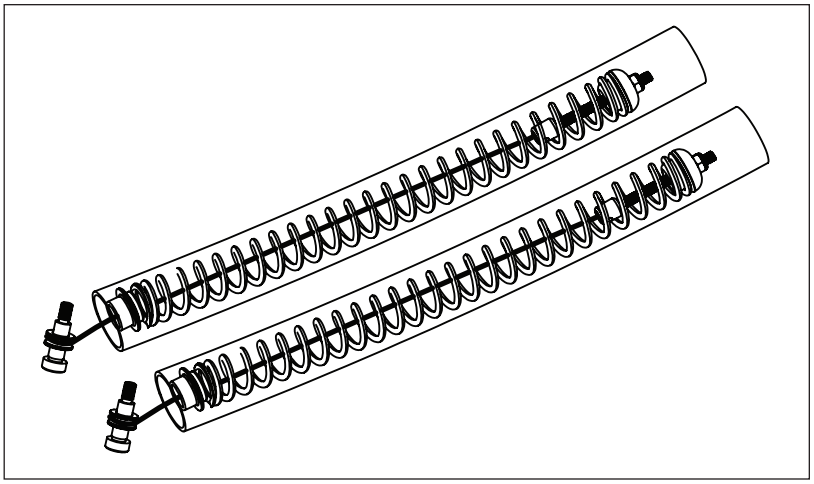
Aviator Weight Assist Installation Instructions
(C910-0022)

Weight Assist Parts



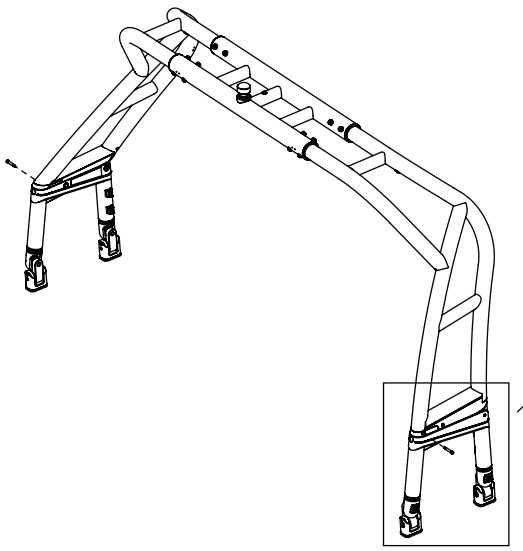
Tools Required

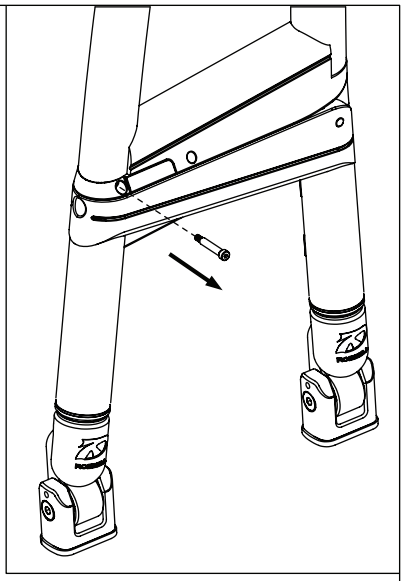


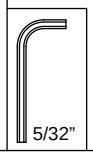


A

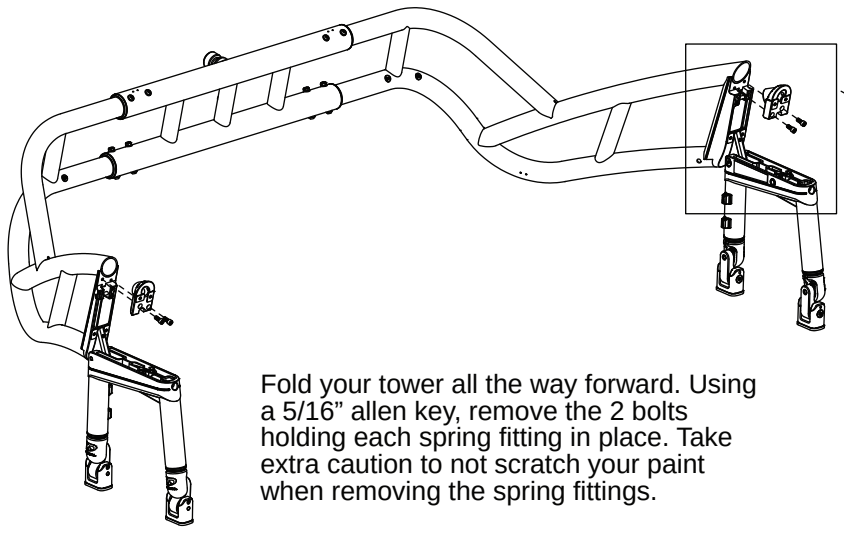
With your tower still in the upright position, carefully remove the 2 robline bolts illustrated to the rightwith a 5/32" allen key. Take extra caution to not scratch your paint.



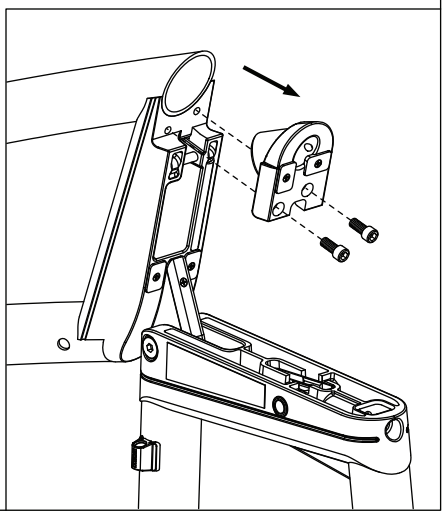


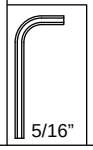


B



Fold your tower all the way forward. Using a 5/16" allen key, remove the 2 bolts holding each spring fitting in place. Take extra caution to not scratch your paint when removing the spring fittings.



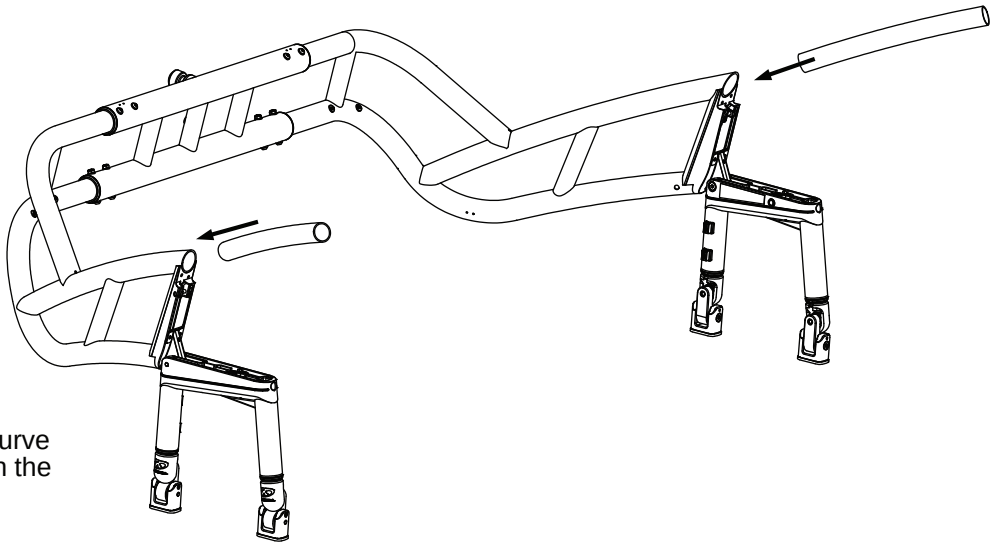


C

x2

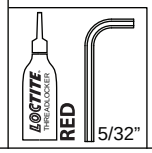
Grab both of the translucent PVC tubes. Slide one into each rear tower tube pushing them in until they are flush with the end of the tower tubing.

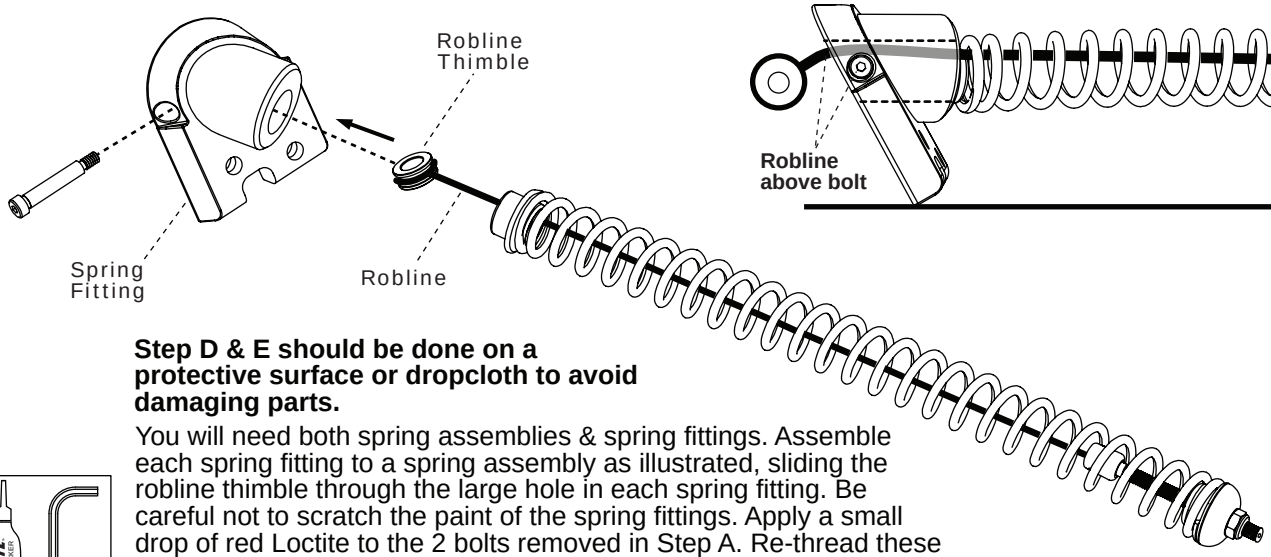
Note:
The PVC tubes have a slight curve to them. Line this curve up with the curve of the tower tubing.



D

x2





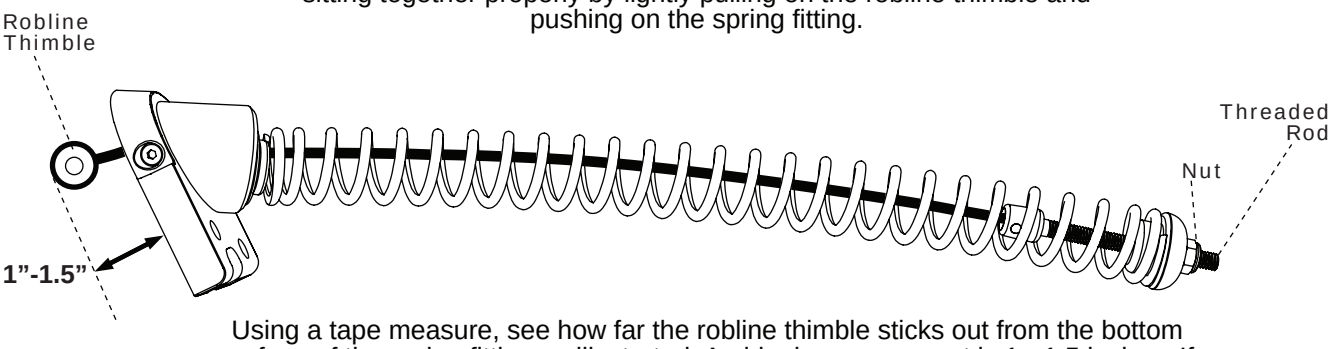
Step D & E should be done on a protective surface or dropcloth to avoid damaging parts.

You will need both spring assemblies & spring fittings. Assemble each spring fitting to a spring assembly as illustrated, sliding the robline thimble through the large hole in each spring fitting. Be careful not to scratch the paint of the spring fittings. Apply a small drop of red Loctite to the 2 bolts removed in Step A. Re-thread these bolts back into each spring fitting making sure that the robline is above the bolt when the spring fitting is in the orientation illustrated.

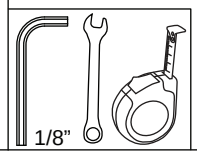
Torque bolts to 15ft.lbs

E

Prior to taking any measurements in this step, ensure all parts are sitting together properly by lightly pulling on the robline thimble and pushing on the spring fitting.



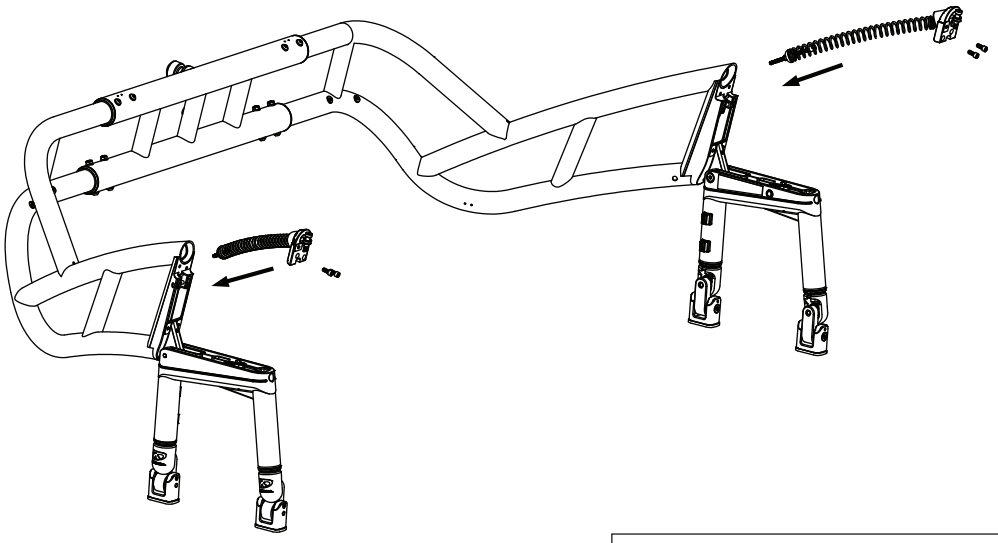
Using a tape measure, see how far the robline thimble sticks out from the bottom surface of the spring fitting as illustrated. An ideal measurement is 1 - 1.5 inches. If the distance is more or less than this range, adjust the threaded rod and nut at the other end of the assembly. You will need a 1/2” wrench and a 1/8” allen key to do so. Adjust each spring assembly so that the distance is the same on both.

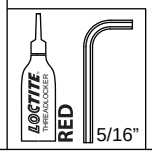


NOTE : If any adjustment is necessary, spray lubricant anti-seize or white lithium grease on the threads of the threaded rod to avoid galling of the nut and threaded rod.

F

Apply a small drop of red Loctite to each bolt removed in Step B. Re-insert your assembled springs and fittings into the tower. Secure them in place by re-threading the bolts removed in Step B.





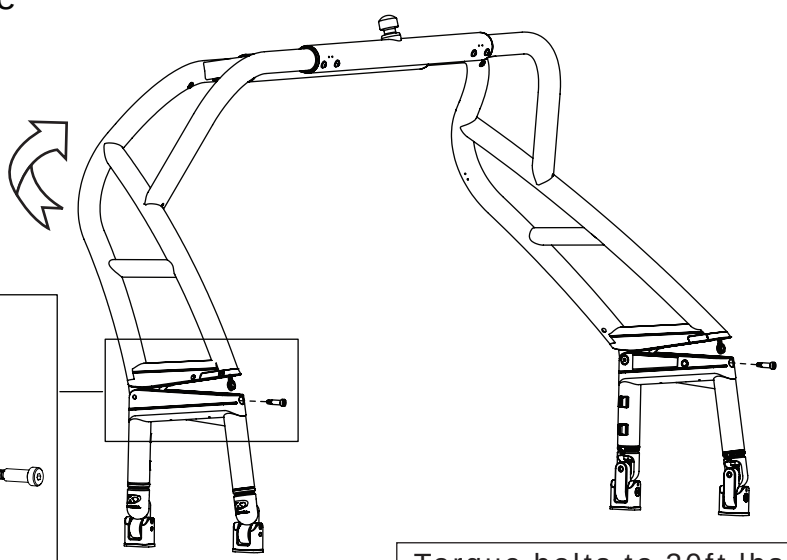
Torque bolts to 30ft.lbs

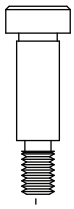
G

This step requires 2 people

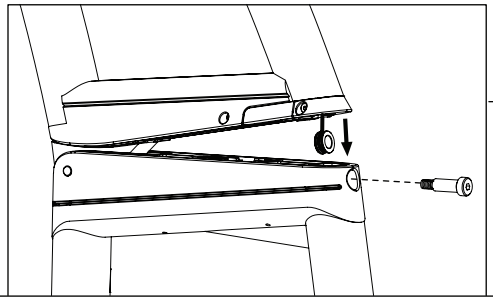
First apply a small drop of red Loctite to each of the 2 bolts provided in your weight assist box.

One person needs to slowly fold the tower up, stopping when the robline thimble is at the correct height where the second person can thread each of the bolts into the mounts and through the robline thimbles.





x2



Torque bolts to 30ft.lbs

H

Fold your tower up and down a couple of times to test and ensure that your weight assist system is functioning properly. Lock your tower cam latches a few times to ensure they are still firmly locking the tower.

Depending on your tower setup, you may find that your tower does not want to stay in the folded position. This is a result of not enough counterweight to keep the tower in a folded position. Adding speakers, board racks and/or a bimini will provide additional counter weight. If a simple, no accessory setup is what you are going for, Roswell recommends disconnecting one of the spring assemblies. This would mean simply removing one of the bolts installed in Step G.