

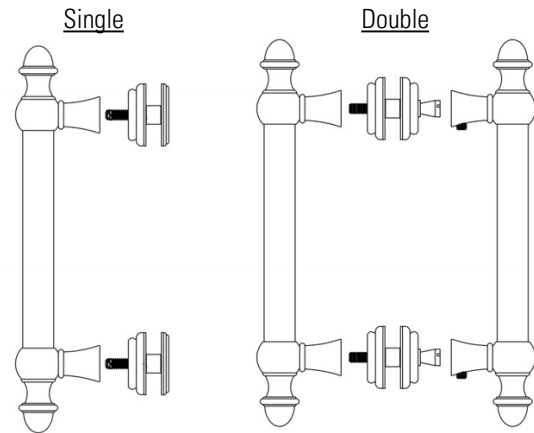
## CUSTOM LENGTH PULLS

L.11 Symphony, L.21 Sonata, and L.31 Concerto pulls can be customized by shortening or replacing the handle tube(s). For replacement tubes see item 507.302 on [portalshardware.com](http://portalshardware.com).

### 1. Disassemble the product:

- a. For singles, remove the backplates, along with rosettes and washers.
- b. For doubles, loosen the set screws with a 1/8" Allen wrench to free one side of the pull and then remove the conehead screws, rosettes and washers from the other side of the pull.

### 1. Disassemble



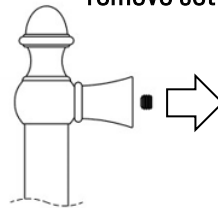
2. Use a 1/8" Allen wrench to loosen set screws within each post. These set screws secure the posts to the tube.

3. Pull each post from the tube(s) to remove. They are held in place by friction.

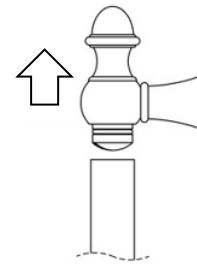
4. Calculate tube length by adding 5/16" to the intended center-to-center length.

5. Cut tubing to calculated length using a non-ferrous saw blade for cutting brass and reassemble product. Be sure to tighten the set screws within the posts loosened in Step 2.

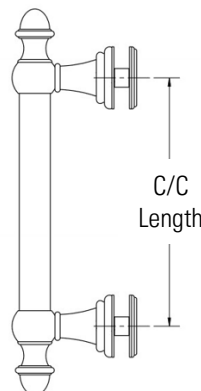
### 2. Loosen or remove set screws



### 3. Remove posts



### 4. Calculate tube length & cut tube



$$\text{Tube Length} = \text{C/C Length} + 5/16''$$

