

Spring Assist Fabrication

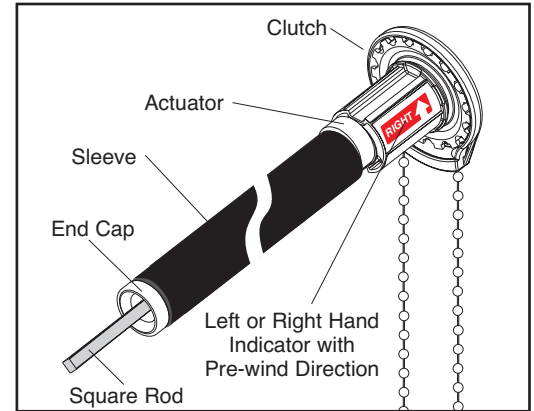
1. SELECT CORRECT PARTS: Using the drop/weight chart, select the clutch and tube required for your project. Select Left or Right hand clutch operation as you must use a different clutch for each. *Assumes back roll roller shade. For front-roll shades see notes below.*

LEFT-HAND clutch operation has a **BLUE** label on the clutch housing. The **RIGHT-HAND** clutch has a **RED** label.

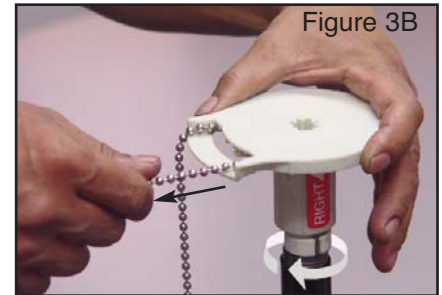
2. INSTALL BEAD CHAIN: For ease of installation, a bead chain drop length of at least 50 inches should be used to allow the chain to clear the spring assist assembly. If a shorter chain is ever required, the open loop should be installed into the clutch before the bead chain is connected.

3. PRE-WIND SPRING: Using the Spring Assist Pre-Rotation Calculator CD (part # **SACD**), determine the number of rotations you must pre-wind into the spring. Holding the clutch as shown in figures 3A & 3B, pull on the rear chain so the housing and spring assist assembly rotates in the direction of the arrow on the red or blue sticker attached to the clutch housing.

Count complete revolutions corresponding to the width versus drop length obtained from the provided chart.



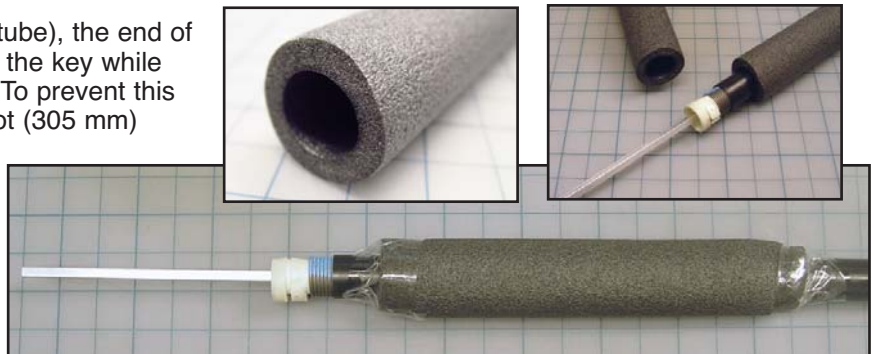
“Left” Blue Label Pre-Rotate in direction of arrow



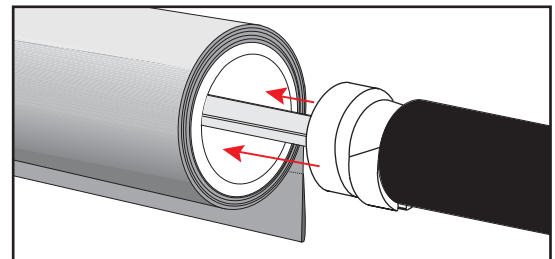
“Right” Red Label Pre-Rotate in direction of arrow

4. INSTALL SOUND REDUCING FOAM

On shade tubes with internal features (keyed tube), the end of the Spring Assist mechanism may rub against the key while the tube is rotating causing a knocking effect. To prevent this it is recommended that an approximately 1-foot (305 mm) section of common plumbing hot/cold water pipe insulation foam be taped to the black sleeve on the end of the Spring Assist. (Use foam sleeve that fits 1" (25mm) copper pipes or 3/4" (75mm) iron pipes) Note: The foam sleeve must be secured to the black PVC sleeve only and should never be attached to the spring, white spring-retainer or square metal shaft.



5. INSTALL INTO TUBE: With the shade in the rolled up position, slide the spring assist assembly into the tube until the housing on the clutch engages and is fully seated with the tube.



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6. NOTES

A.) Front Roll Shades

Assembly instructions above assume a back roll roller shade. Front roll shades must be assembled differently. For front roll shades (**only**), use a right-hand clutch on the left side or a left-hand clutch on the right side. Pre-rotations should still follow the direction the arrow indicates.

B.) Re-setting Spring

If it ever becomes necessary to reset the spring assist to zero tension (ie...changing a spring assist roller shade for use in another application, etc...) before adding additional pre-rotations you need to make sure the spring tension is reset to zero.

How to tell if spring is at zero tension: Hold the clutch by the housing with one hand and with the other move the cord guard and release. If the cord guard stays in it's position the spring is virtually at zero, if the cord guard snaps back, adjustment is needed. Manually adjust as close to "zero" as possible using the bead chain to counter rotate the spring in the opposite direction of the arrow. Test and adjust until spring is at zero. **Note:** Illustration shown for right-hand clutches, left hand clutches will snap back in the opposite direction.

Once the spring has returned to zero, use the pre-rotation chart, and pre-wind the spring according the requirements of the new application.

