

INSTALLATION INSTRUCTIONS

Spring Anchor Bracket Attachment Supplement

(For use with Commercial & Industrial Sectional Doors Installation & Maintenance Manual)

This is a supplement to the Commercial & Industrial Sectional Doors Installation & Maintenance Manual (Referred to as MANUAL). It covers important information unique to certain Commercial door configurations. For all other information and safety warnings concerning your Commercial garage door, see the MANUAL. Read all of the information in both manuals before beginning installation.

These instructions cover the following areas, where this Commercial door installation differs from the standard Commercial door installation:

1. Spring anchor brackets **NOT** attached to the torsion spring(s) and,
2. Fasteners bagged and packed in the hardware carton.



WARNING

DO NOT ATTEMPT TO INSTALL, REPAIR, OR ADJUST the External Lift Cable Mounting System with spring tension applied to the lift cable. Failure to remove all tension could cause SEVERE INJURY OR DEATH if mishandled.

NOTE: Auxiliary shaft support is needed for solid shaft doors over 16' 2" W, based on the following spring configurations:

	# of Springs or Duplex Springs per Shaft	# of Auxiliary Shaft Supports per Shaft
Standard	4, 6 or 8	2
	2	4
Center Lift	All Cases	4

Step 1

Slide the spring, bearings, bearing retainers and cable drums on to the torsion shaft, see Fig. 1-AT in the installation manual for the order the parts need to be arranged.

Step 2

Slide the torsion shaft into one end bearing plate then back through the opposite one.

Step 3

Fasten the spring anchor bracket using 5/16" x 1 5/8" red-colored lags over the center of the door or as required. Make sure torsion tube is straight and level when resting in the anchor bracket.

Note: Depending on the end bearing plate and spring I.D. for your door, the spring anchor bracket slot used to attach the spring(s) will change (see chart below).

Step 4

For a 2" or 2-5/8" I.D. Springs with only one spring, use this step 4.

Attached the stationary spring cone to the right side spring anchor bracket with two 3/8" x 1-1/2" hex bolts and 3/8" flange nuts. Make sure there is no bow in the torsion shaft when attaching spring to the anchor bracket.

For a 2" or 2-5/8" I.D. Springs with a pair of springs & a Tube Shaft, use this step 4.

Attached the LH wound spring to the right side and the RH wound spring to the left side of the spring anchor bracket with two 3/8" x 1-1/2" hex bolts and 3/8" flange nuts. Make sure there is no bow in the torsion shaft when attaching spring to the anchor bracket.

For a 3-3/4" & 6" I.D. Springs or Doors with Solid Shaft, use this step 4. Hex flange nuts not required for 6" springs or duplex springs.

Attached the LH wound spring to the right side of the right center spring anchor bracket with two 3/8" x 1-1/2" hex bolts and 3/8" flange nuts for 3-3/4" springs or two 3/8" x 3/4" hex bolts and 3/8" flange nuts. Attach the RH wound spring to the left side of the left center spring anchor bracket with two 3/8" x 1-1/2" hex bolts and 3/8" flange nuts for 3-3/4" springs or two 3/8" x 3/4" hex bolts and 3/8" flange nuts for 6" springs. Make sure there is no bow in the torsion shaft when attaching spring to the anchor bracket.

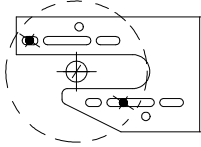
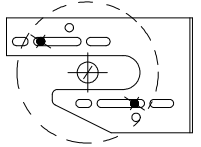
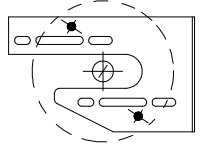
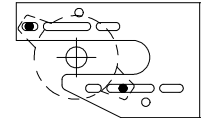
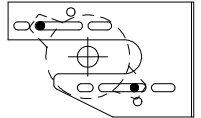
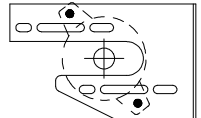
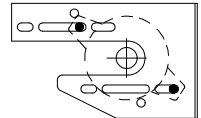
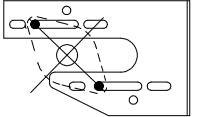
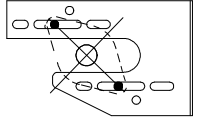
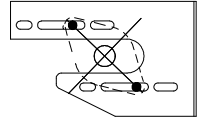
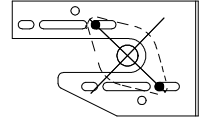
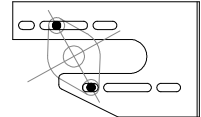
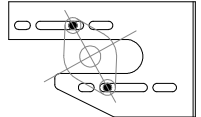
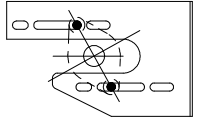
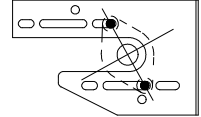
NOTE: Duplex springs require two fasteners to hold the 3-3/4" anchor cone to the 6" anchor cone. First remove one fastener and refasten the 3-3/4" cone to the 6" cone through the spring anchor bracket with 3/8" x 1-1/2" hex bolts (hex flange nuts not required) and then repeat for the other fastener. If you unfasten both fasteners at the same time the 3-3/4" spring cone will no longer be attached to the 6" anchor cone.

*If auxiliary supports are needed follow the next step, if not needed you will skip this step.

Step 5

Attach the auxiliary support bracket(s) with 5/16" x 1 5/8" red-colored lags and attach the bearing and bearing retainer with 3/8" x 3/4" hex bolts and 3/8" flange nuts.

Stationary Cone Mounting Location to Universal USA Center Support Bracket

CENTERLINE OF SHAFT TO BACK OF MOUNTING BRACKET				SPRING I.D.
6" CENTERLINE	5" CENTERLINE	4 3/8" CENTERLINE	3 3/8" CENTERLINE	
			N/A	6" & Duplex
				3 3/4"
				2 5/8"
				2"

Note: Black dots on above drawings indicate mounting bolt locations. Cones are mounted to brackets on face opposite, mounting flange bracket.