

ADJUSTMENT MANUAL

STREAMLINE SERIES

Tool Requirements					
Item	Tool Description	Qty.	Item	Tool Description	Qty.
1	3/8" Wrench	1	2	1/2" x 10" Lg Rods	2
3	1/2" Wrench	1	4	Locking pliers with pipe grip	4
5	7/16" Wrench	1			

WARNING: When wound or when winding, the spring is under high tension and is dangerous. It should only be wound or serviced by a qualified technician. For information on counterbalance installation, contact McLaren Doors at 877-263-9153 or for afterhours assistance contact 416-316-6036.

COUNTERBALANCE/SPRING REPLACEMENT:

- Attach 1 lock plier on each horizontal track approximately 12-18" inward from the header. (Shown in figure 1). Do NOT remove pliers until the door spring tension has been completed.
- Secure the shaft in place by applying 2 locking pliers to the shaft between the center shaft bracket and driver side cable drum. Apply 1 locking pipe plier onto the shaft (underneath the shaft and against header/door opening) and the other locking plier should be pressed against the roof above the shaft. Make sure that the locking pliers are attached firmly to avoid any shaft rotation.
- Insert the 1/2" rod into the cone winding of the spring and undo the screws of the cone winding by slowly unwinding the spring until the spring tension is gone.
- Remove the nuts from the center shaft bracket using the 1/2" wrench and slide the spring off the bolts.



Figure 1

****READ ALL OF THE HIGHLIGHTED INSTRUCTIONS BEFORE CONTINUING****

- Unscrew the cable drums and pull the cables off of the drum
- Remove the driver side vertical track bearing from the driver side vertical track. Do NOT remove the spacer nuts that are located behind the shaft bearing (Shown in figure 2)
- Slide the driver side bearing and cable drum to the left **NOTE: The driver side of the shaft is marked with black painted on the cable drum..**
- Pull the shaft out of the passenger side bearing bracket.
- Slide the detached bearing on to the driver side of the shaft.
- Slide the counterbalance shaft into the passenger side vertical track bearing.
- Lift the driver side of the counterbalance up and slide the bearing back on to the vertical track bracket and secure the driver side bearing.
- Slide the spring on to the center shaft bracket bolts and re-attach the spring using the ½” wrench.
NOTE: For single spring applications, make sure there is 12” of shaft between the end of the spring and the vertical track bearing to allow for expansion. (Figure 10).
- Ensure all bracket fasteners are tight when done.



Figure 2



Figure 3

WINDING CABLES

- Ensure the shaft rotates easily before starting and has a minimum of 1/8” movement from side to side with no more than 1/4” movements from side to side.
- Secure the shaft in place by applying 2 locking pliers to the shaft between the center shaft bracket and driver side cable drum. Apply 1 locking pipe plier onto the shaft (underneath the shaft and against header/ door opening) and the other locking plier should be pressed against the roof above the shaft to prevent the shaft from rotating.
- Wind the cables onto the drums until the cable is tight. (When winding the cables, they should be wound in the **opposite** direction of figure 11.)

- Slide the driver side cable drum (Black painted drum) against the vertical track bearing and secure the cable drum using a 3/8" wrench.
- Wind the passenger side cable on to the cable drum (red) then slide the cable drum to the passenger side bearing. Leave about 1/4" of space between the red painted cable drum and the passenger side bearing.

SETTING SPRING TENSION – IN THE DOOR OPEN POSITION

- Using a black marker, mark the shaft at the fastening side of the spring.
- Measure approximately 2.5"-3" toward the passenger side drum and mark the measurement using the marker. The spring should be stretched .25" for every turn required
- **For best results:** Proper measurement is spring diameter x required winds = spring stretch requirements
- Wind the spring for 4 to 4.5 complete turns in the direction shown in figure 11 above.
- Stretch the spring to the secondary mark and secure the spring using a 3/8" wrench.
- Ensure **all** counterbalance fasteners are tight.
- Removing the locking pliers from the shaft.
- Remove the locking pliers the horizontal tracks.
- NOTE: Keep hands clear of the horizontal tracks and your head below the door. The door will roll forward 15" when removing the locking pliers from the tracks.
- Roll the door up and down slowly to test the operation.
- NOTE: If during operation the spring does not remain straight (starts to zig zag), contact McLaren Doors at 877-263-9153.

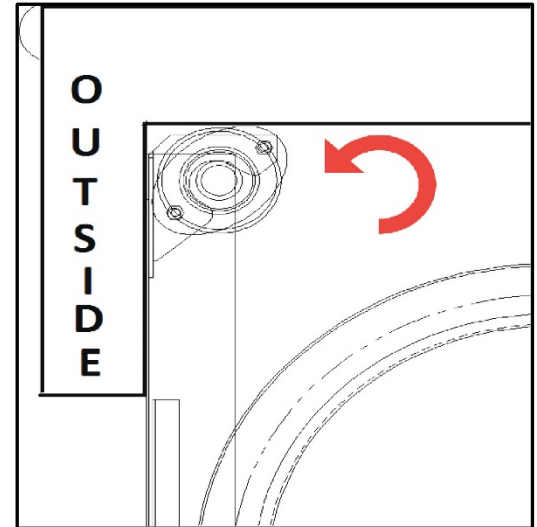


Figure 4