

Spring Winding Instructions – Open Position

WARNING:

A roll up door is a heavy moving object. The counterbalance spring is under high tension and is very dangerous. MCLAREN DOORS doors should only be installed or serviced by a qualified technician to ensure a quality installation and to avoid risk of injury. MCLAREN DOORS will not be responsible for any loss, damage or injury resulting from an improper installation or improper servicing of the door. Please read these instructions and all MCLAREN DOORS installation instructions carefully.

The spring can be set in one of two ways

1. Closed position to the recommended number of turns.
2. Open Position
 - Alternate method to conventional winding in closed position. This is our preferred method as it is safer and faster

Setting the spring with the door in the open position:

1. Use vice grips in the horizontal tracks to secure the door in place.
 - Keep the door 8-10 inches back from the header to allow enough room to work.
 - Keep the door back from the header the same distance on each side.
This will help ensure the door is level across the sill and will minimize any final adjustments.
2. Secure the shaft with two vice grips, one against the roof and one against the header.
 - Leave enough room to work around the winding end of the spring at least 6 inches
3. Wind the cables on to the drums.
 - Ensure the cable drums are on the correct way – written on the end of the drums
 - Do not overlap the cable and ensure the cables follow the grooves in the drums.
If they don't, check to make sure the drums are on the correct sides.
4. Push the cable drums completely to the outside so they are against the end bearing.
5. Securely tighten both set screws on each drum.
6. Wind the spring 3 to 3 1/2 revolutions by hand, turning the spring upwards towards the roof.
 - For small doors 3 winds should be adequate increasing to 3 1/2 for large doors
7. Stretch the spring 3 inches to the left and tighten both spring set screws securely
8. Release the vice grips on the shaft and then the vice grips on the door in the horizontal tracks.
9. Final Checks: A, B, C – You must check all 3
 - A. The door should open and close easily with no resistance. If it does not you may need to adjust the spring tension. Before you add more spring winds check the following:

Track

- Ensure tracks are parallel and the proper distance apart throughout relative to panel length, (outside of tracks to outside of tracks = panel length + 3.5" – section 1 above). Check this in several places, in the horizontal tracks, the radius and in the vertical tracks. You can measure the distance (see step 1 above), or at any point in the tracks you

should be able to select a panel and placing your finger on the two side straps where the roller is you should be able to wiggle them slightly side-to-side. Check both ends of that panel. If you cannot wiggle the side straps slightly side to side the tracks are not the proper distance apart and need to be adjusted. TIP: Adjustments can often be done using an adjustable load bar to force the tracks out where needed. You may also need to add a flat head, countersunk fastener in the track to draw the track out.

- Ensure there are no obstructions in the track and the track joints are smooth

Cable Drums and Operator

- When you installed the operator shaft did it turn freely?
- Ensure the cable drums are pushed full to the outside
- Ensure there is nothing interfering with the rotation of the drums
- Spring Bunching see below

Door

- Is the door level across the sill? – see below
- When closed are the panels aligned vertically? Ensure the top panels are aligned vertically with the rest of the door panels and are not pushed excessively towards the header

Spring bunching – see below

If you need to adjust the spring winds you can do it with the door in the open position following the instructions above or with the door in the closed position as follows:

- Close the door
- Vice grip the shaft with 2 vice grips as described above
- Insert a spring winding rod
- Hold the rod firmly and carefully loosen the set screws on the spring
- Add or remove turns as needed
- Securely fasten the set screws
- Remove the vice grips

B. Ensure the door seals evenly across the sill

- If one side is not making proper contact with the sill:
 - With the door in the closed position, secure the shaft with 2 vice grips as described above
 - Slowly loosen the cable drum on the side of the door that is high
 - Let the door creep down / gently nudge it until it comes in contact with the sill
 - Securely tighten the set screws
 - Remove the vice grips

C. Spring Bunching

- Check the spring looking up from the outside as the door is closing to ensure the spring remains straight when the door is almost closed. If it is bunching too much you will typically start feeling resistance as the door is closing and is close to the sill. You can adjust the spring as follows:
 - Close the door
 - Vice grip the shaft with 2 vice grips as described above
 - Insert a spring winding rod
 - Hold the rod firmly and carefully loosen the set screws on the spring
 - The spring will slide either to the left or the right and straighten itself out. You may have to nudge it
 - Securely re-fasten the set screws.
 - Remove the winding rod and then remove the vice grips

ASSISTANCE: Contact McLaren Doors during normal business hours toll free: 1-877-263-9153