

LB Series Magnet Bar Section Mounting Instructions

1 RELATED DOCUMENTS:

- 1.1 Magnet Bar Dimensional Drawing (See Table 1).

Model	Drawing
LB043	88-019805-01
LB063	88-018525-01
LB102	88-019780-01
LB140	88-019116-01

Table 1.

2 EQUIPMENT:

- 2.1 Safety glasses
 2.2 Magnet bars
 2.3 Thread locking compound
 2.4 Recommended mounting hardware: 18-8 (or higher grade) stainless steel socket head cap screws (See Table 2).

Model	Mounting Screw	Torque Value
LB043	M3 x 0,5	1.7 N-m (15 in-lbs)
LB063	M3 x 0,5	1.7 N-m (15 in-lbs)
LB102	M4 x 0,7	4.0 N-m (35 in-lbs)
LB140	M4 x 0,7	4.0 N-m (35 in-lbs)

Table 2.

3 PRECAUTIONS

- 3.1 **EYE PROTECTION MUST BE WORN WHEN INSTALLING THE MAGNET BAR SECTIONS.** The magnets may shatter if struck against hard surfaces.
- 3.2 **KEEP MAGNETS AWAY FROM FERROUS METAL.** Once attached, the rails can be very difficult or impossible to remove.
- 3.3 **EXTREME MAGNETIC FORCE CAN BE GENERATED BETWEEN TWO MAGNET BARS.** Bodily harm to fingers or other extremities is possible if caught between two rails or between rails and steel.

4 BUILD INSTRUCTIONS:



Caution! The magnet bar sections have very powerful magnets. They will attract each other and any ferrous metal such as tools. Be extremely careful that fingers do not become pinched between them.

- 4.1 Read this entire manual before beginning installation

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- 4.2 Make sure all mounting surface dimensions and tolerances are met according to respective dimensional drawing in **Table 1**, particularly mounting surface flatness and bolt pattern dimensions and tolerances. Clean mounting surface and the bottoms of the magnet bar sections prior to installation.
- 4.3 Apply thread locking compound to mounting screws according to manufacturer's instructions.



Caution! Remove one magnet bar section at a time from the cardboard packing. Do not allow other magnets or any ferrous metals, such as tools, to come in close proximity of the magnet bar. When installing multiple sections, bolt down one bar at a time, making sure any unpacked bars are fastened to mounting surface before unpacking any further rails.

- 4.4 When installing multiple sections, start at one end of the mounting surface and install the first magnet bar such that the second magnet bar section will insert under the first (**Figure 1**).

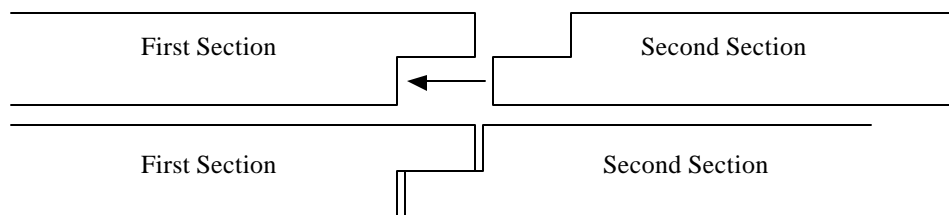


Figure 1. Mounting Order

- 4.5 Install the mounting screws in the first magnet bar section such that the magnet bar is secure. **DO NOT TIGHTEN SCREWS AT THIS TIME.**
- 4.6 Install any remaining bars in the same fashion, working from left to right (**Figure 1**). Place all sections first without tightening screws.
- 4.7 Starting at the center bar of the entire assembled rail and using a torque wrench, tighten screws $\frac{1}{4}$ turn each in the sequence shown in **Figure 2** until all screws on the bar are tightened to the recommended torque value in **Table 2**. Apply mounting screw torque-down sequence according to **Figure 2** for all magnet bars in the series.

Note: Constant torque applied to each screw will help maintain flatness tolerance.

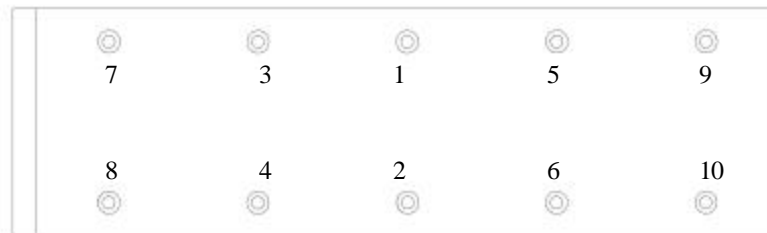


Figure 2. Mounting Screw Torque-Down Sequence

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- 4.8 Torque down the remaining magnet bars according to the diagram in **Figure 3**. For example, begin with Section 3, then Section 2, then Section 4, then Section 1, and then Section 5.

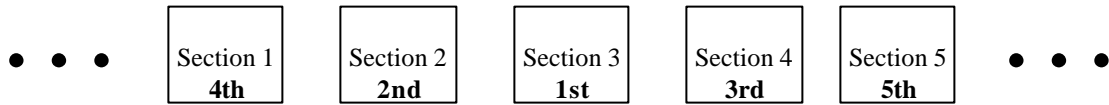


Figure 3. Section Torque-Down Sequence