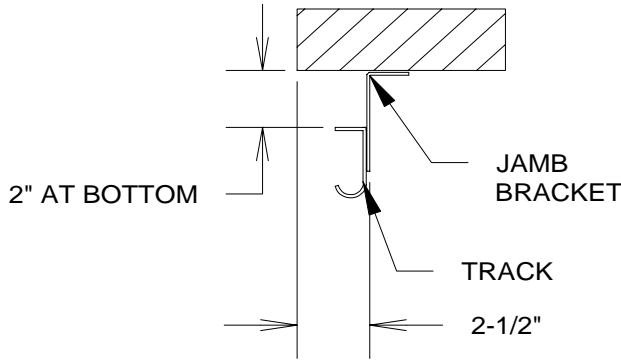


BUG BLOCKER™ INSTALLATION

1)

1.1) Install lower vertical track using numbered jamb brackets. Track is sloped $\frac{1}{8}$ " per foot of height.

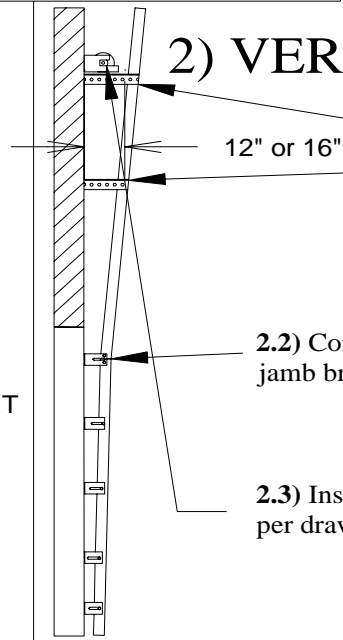


2) VERTICAL LIFT

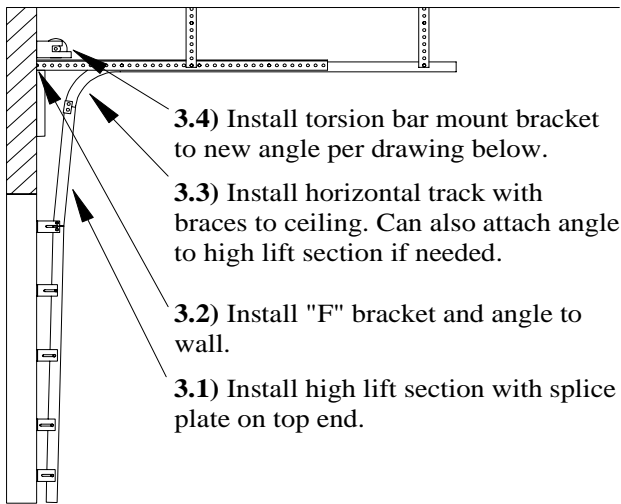
2.1) Install upper track with punched angles. Space from the wall 12" out for doors less than 11' high and 16" for doors more than 11' high.

2.2) Connect lower end using top jamb bracket.

2.3) Install torsion bar and springs per drawing below.



3) HIGH LIFT



3.4) Install torsion bar mount bracket to new angle per drawing below.

3.3) Install horizontal track with braces to ceiling. Can also attach angle to high lift section if needed.

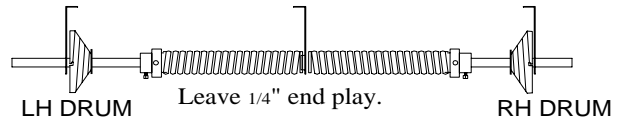
3.2) Install "F" bracket and angle to wall.

3.1) Install high lift section with splice plate on top end.

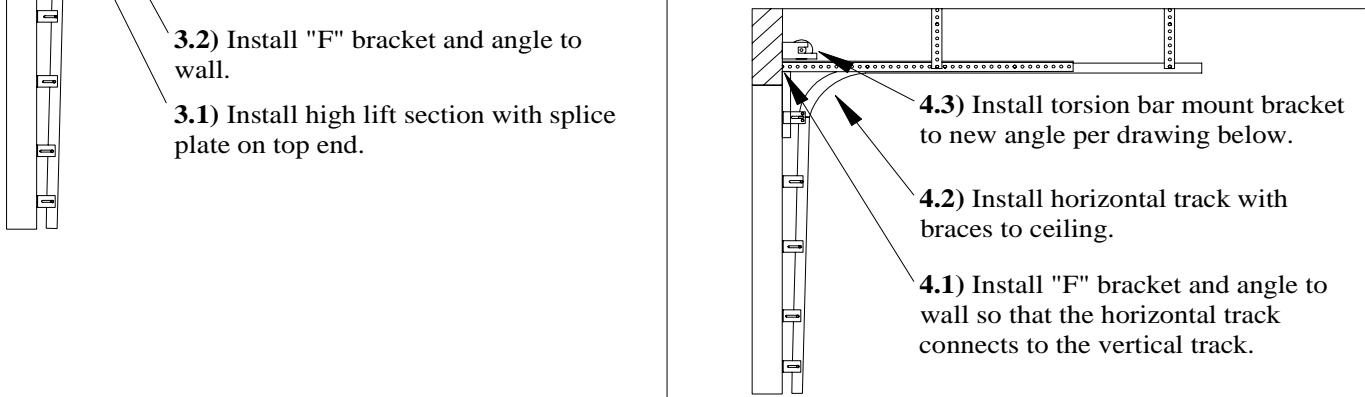
LOOKING FROM THE INSIDE TOWARDS THE DOOR

RED SPRING

BLACK SPRING



4) STANDARD LIFT



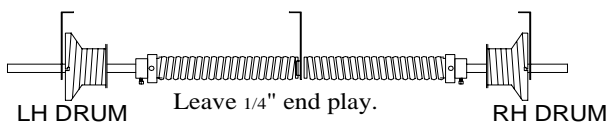
4.3) Install torsion bar mount bracket to new angle per drawing below.

4.2) Install horizontal track with braces to ceiling.

4.1) Install "F" bracket and angle to wall so that the horizontal track connects to the vertical track.

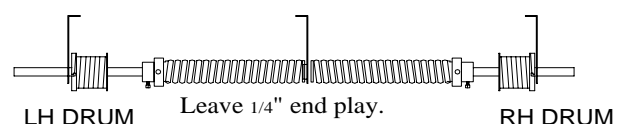
RED SPRING

BLACK SPRING



RED SPRING

BLACK SPRING



5)

5.1) Install on the bottom section the right bottom bracket with 3ea Pk's. Install #1 center hinges and a #1hinge on the right end FINGER TIGHT. (INSTALL THE HINGES WITH THE NUMBERS DOWN)

5.2) Install bottom section in the track and add the other bottom bracket and #1 hinge on the left end. (Use long stem rollers on bottom corners.)

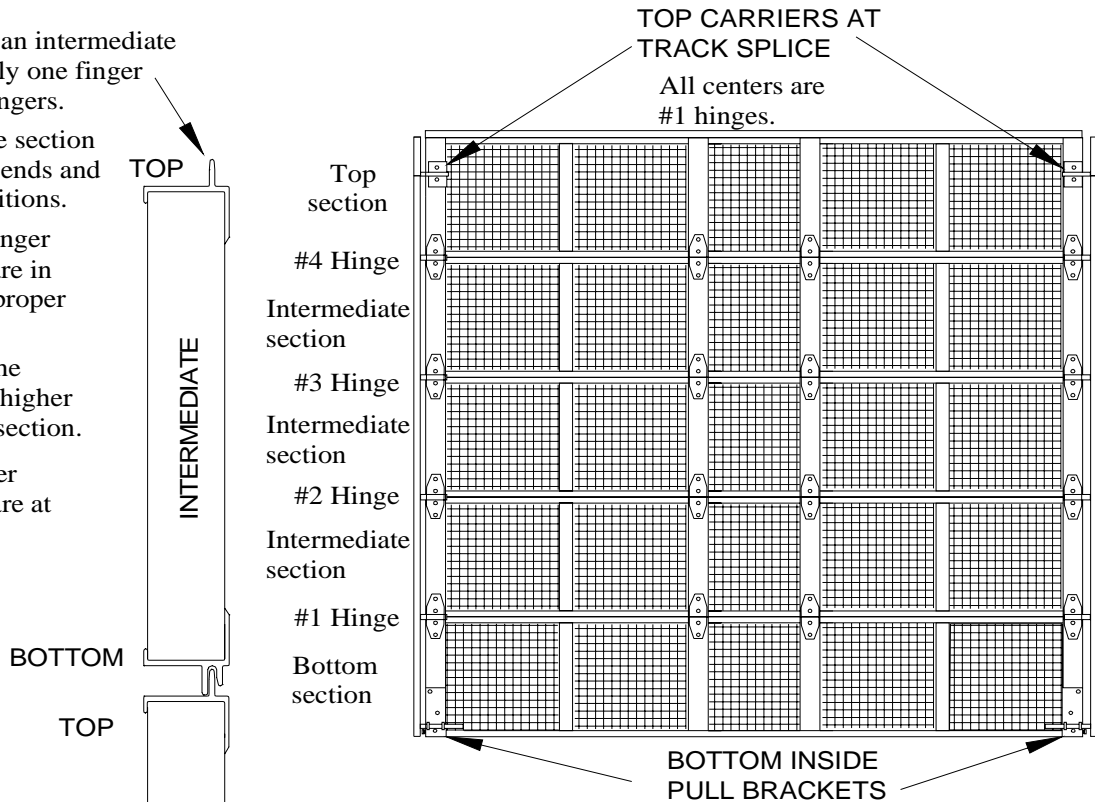
5.3) Identify the top of an intermediate section. The top has only one finger and the bottom has 2 fingers.

5.4) Install intermediate section using #2 hinges on top ends and #1 hinges in center positions.

5.5) Install all hinges finger tight until all sections are in place and checked for proper engagement.

5.6) Install the rest of the sections using the next higher number hinge on each section.

5.7) Attach the top roller carriers so that rollers are at TRACK SPLICE.



6)

6.1) Measure the distance from the torsion shaft to the floor and calculate the cable length as follows:
(For a rear mounted torsion the distance is measured from the floor around the pulley to the torsion bar.)

VERTICAL LIFT DRUMS:

OMI 11 VL (8- $\frac{1}{2}$ " Dia.) Bottom bracket to shaft plus 137" minus door opening height.

OMI 18 VL (10- $\frac{5}{8}$ " Dia.) Bottom bracket to shaft plus 232" minus door opening height.

OMI 28 VL (13- $\frac{1}{2}$ " Dia.) Bottom bracket to shaft plus 346" minus door opening height.

HIGH LIFT DRUMS:

OMI 54 HL-LD (5- $\frac{7}{8}$ " Dia.) Floor to shaft plus 63" minus cable lift.

OMI 54 HL (7- $\frac{3}{16}$ " Dia.) Floor to shaft plus 66" minus cable lift.

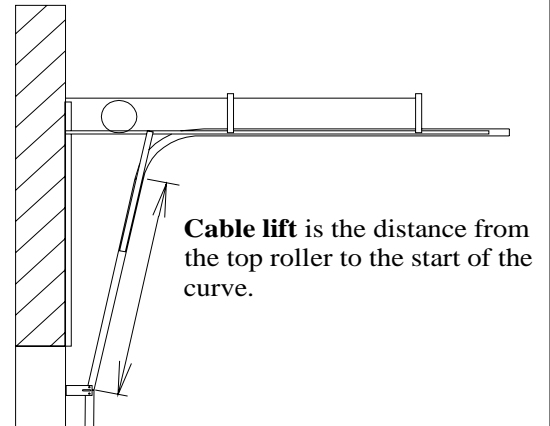
OMI 120 HL (9- $\frac{3}{16}$ " Dia.) Floor to shaft plus 134" minus cable lift.

OMI 164 HL (11" Dia.) Floor to shaft plus 181" minus cable lift.

STANDARD LIFT DRUMS:

OMI 12 (4- $\frac{3}{4}$ " Dia.) Floor to pulley to shaft plus 8".

OMI 18 (6" Dia.) Floor to pulley to shaft plus 10".



6.2) Carefully measure the cables and flatten stops into position.

6.3) Cut off excess cable.

6.4) Install cables and wind springs as specified on the front cover.

6.5) Make sure tracks are properly braced and evenly spaced - parallel and perpendicular.

7)

7.1) Install down lock and handle with PK's (self-drillers).

7.2) Install pull rope on bottom under right hand roller.

7.3) Tighten down all fasteners.

7.4) Install stop springs to stop door above top of opening.

7.5) Check that door is level. Adjust drum positions on shaft if necessary.

7.6) Install brush seal in opening to seal front of door.