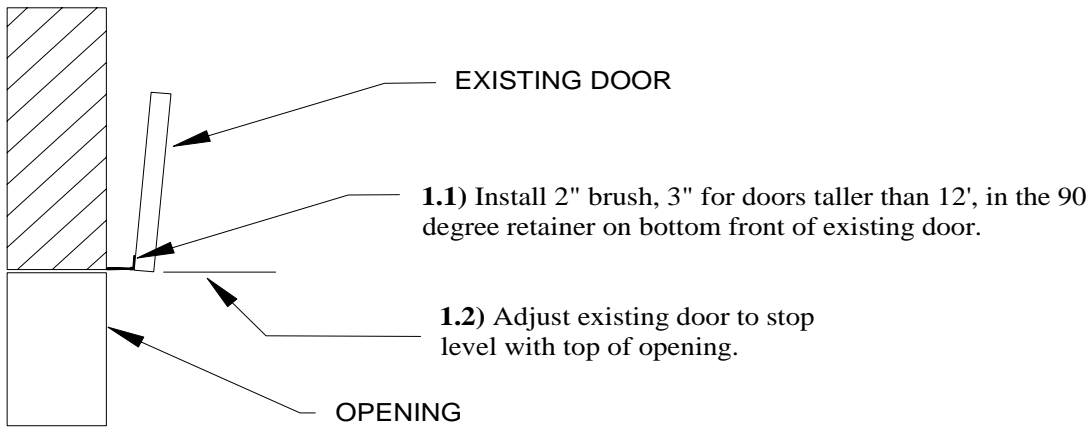


# BUG BLOCKER™ BEHIND 2" TRACK VERTICAL LIFT

1)

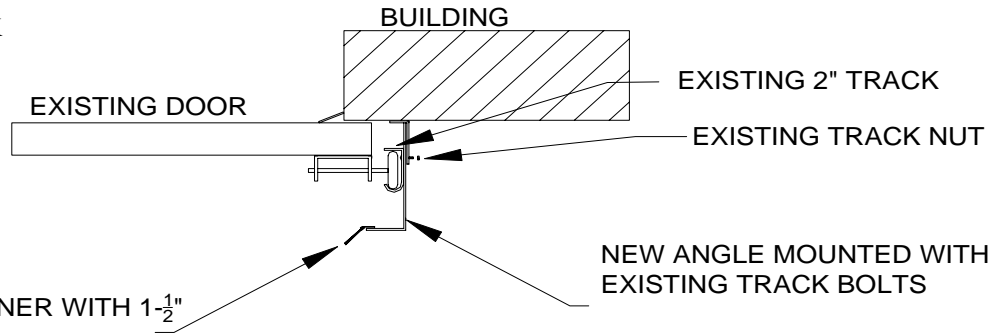


2)

**CAUTION: IF EXISTING TRACK IS NOT WELL MOUNTED, EXTRA BRACING TO SIDE PLATE WILL BE NECESSARY**

**2.1) Bolt side angle with 1-1/2" brush seal to the existing track using the existing track bolts and nuts.**

45 DEGREE RETAINER WITH 1-1/2" BRUSH SEAL

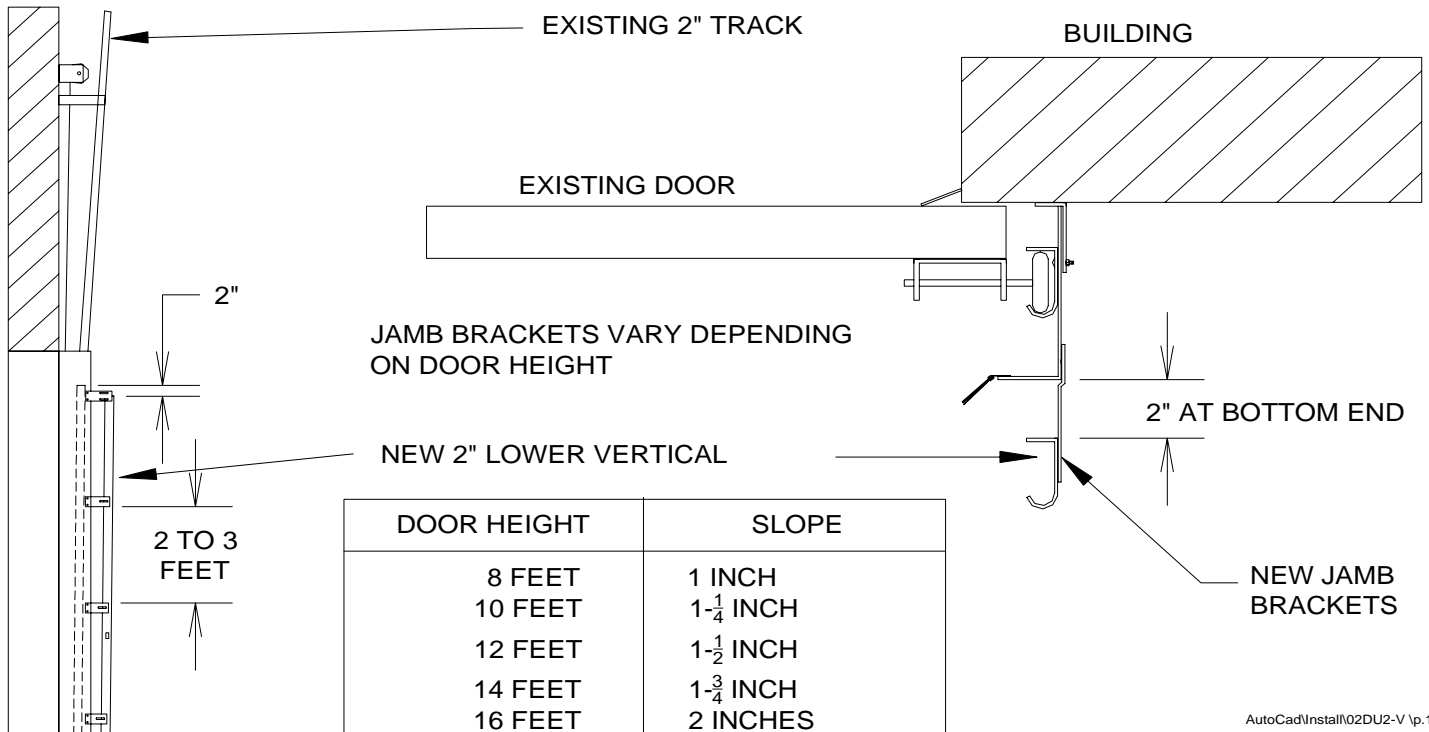


3)

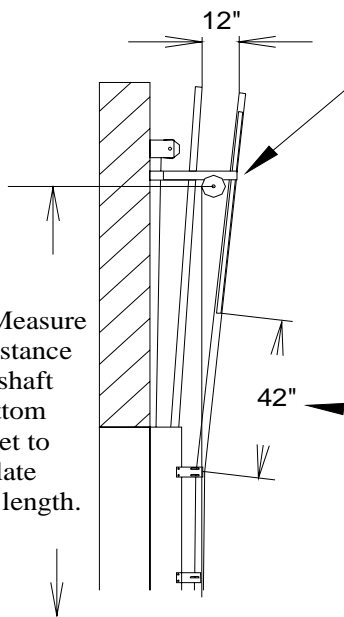
**3.1) Cut the bottom off new lower vertical track so that it is 2" shorter than existing track.**

**3.2) Install jamb brackets with bolts or weld to the new reverse angle. Start with the shorter brackets on the bottom and go longer as you work your way up. Space the jamb brackets evenly. The top jamb bracket will have 2 slots and must be mounted so that it will be 1/2 way above the top end of the new vertical.**

**3.3) Install new 2" lower vertical to jamb brackets. Space 2 inches from angle at bottom end. Slope as indicated in table.**



4)



4.6) Measure the distance from shaft to bottom bracket to calculate cable length.

4.1) Install new angle along existing angle (Bolt or weld) 14" beyond existing track.

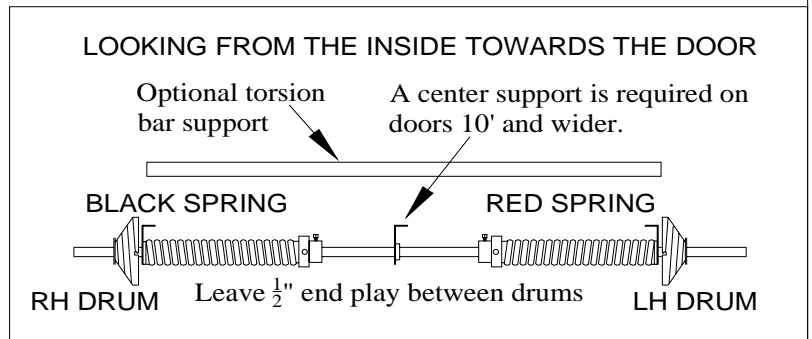
4.2) Attach new track to angle with 12 inches between tracks. Make sure tracks are properly braced and evenly spaced - parallel and perpendicular. Horizontal bracing between the new tracks may be needed if less than 10' wide.

4.3) Install torsion bar mounting brackets on each side (Flat side out). If you have one, install torsion bar support first.

4.4) Mount torsion bar and springs as shown below. Use center support and torsion bar support if over 10' wide.

Bottom end has 42" space for cable clearance. Use top jamb bracket with 4 ea  $\frac{1}{4}$ " track bolts to attach to lower vertical.

4.5) Install drums on shaft as shown. Leave  $\frac{1}{4}$ " end play to prevent binding. New cable off front of drum.



5)

5.1) Install on the bottom section the right bottom bracket with 4ea Pk's and 2 track bolts. Install #1 center hinges and a #1 hinge 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.)

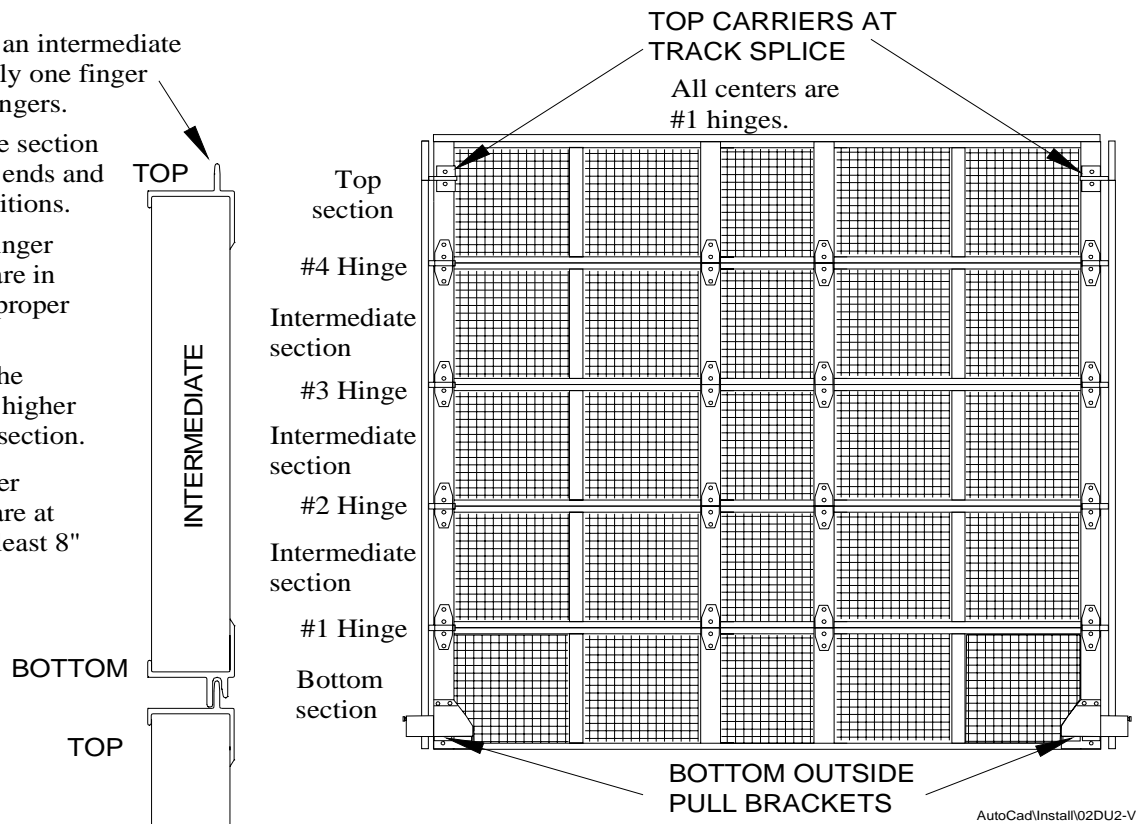
5.3) Identify the top of an intermediate section. The top has only one finger and the bottom has 2 fingers.

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. (At least 8" from top of door)



6) 6.1) Measure the distance from the torsion shaft to the bottom bracket and calculate the cable length as follows:

**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.

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

6.3) Cut off excess cable.

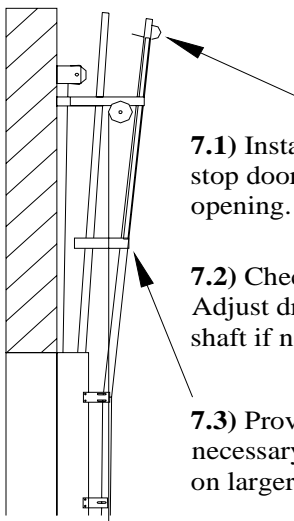
6.4) Install cables and wind springs as specified on the front cover.

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

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

6.7) Tighten down all fasteners.

7)

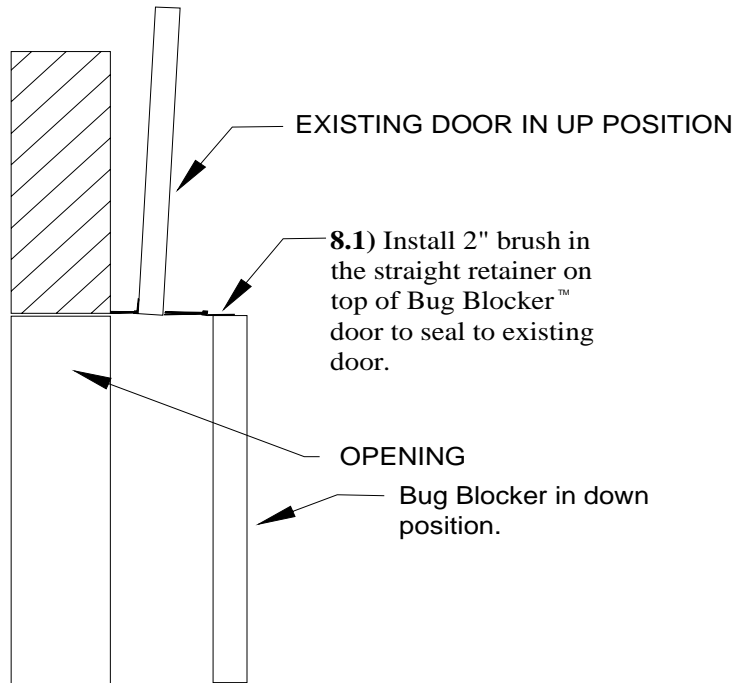


7.1) Install stop springs to stop door above top of opening.

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

7.3) Provide an extra brace if necessary to stabilize track on larger doors.

8)



EXISTING DOOR IN UP POSITION

8.1) Install 2" brush in the straight retainer on top of Bug Blocker™ door to seal to existing door.

OPENING

Bug Blocker in down position.