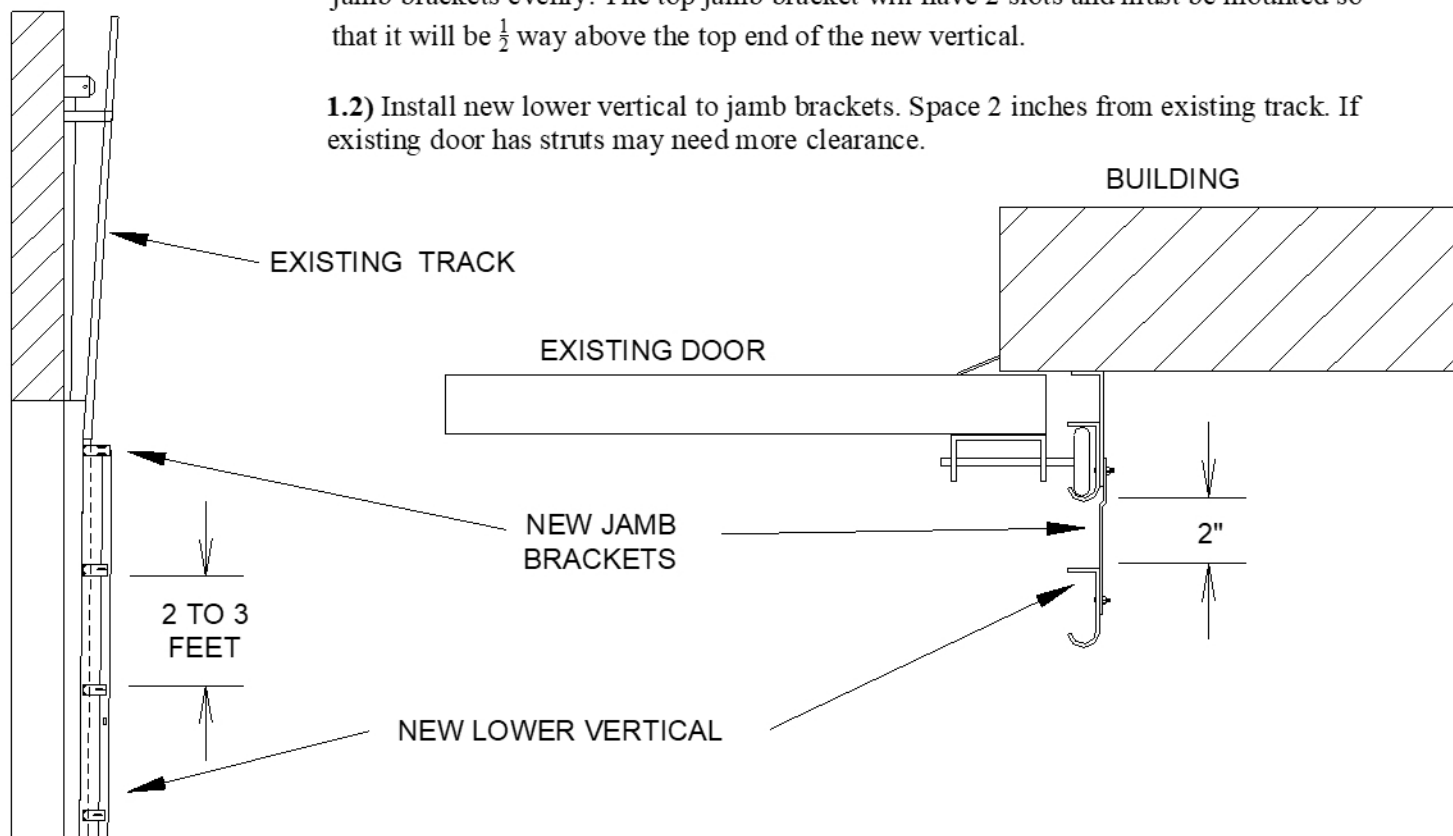


SECURITY DOOR BEHIND TRACK VERTICAL LIFT

1)

1.1) Install jamb brackets with bolts or weld to the existing track or clips. Space the jamb brackets evenly. The top jamb bracket will have 2 slots and must be mounted so that it will be $\frac{1}{2}$ way above the top end of the new vertical.

1.2) Install new lower vertical to jamb brackets. Space 2 inches from existing track. If existing door has struts may need more clearance.



2)

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

2.2) 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.

See BRACING WARNING
on SAFETY page.



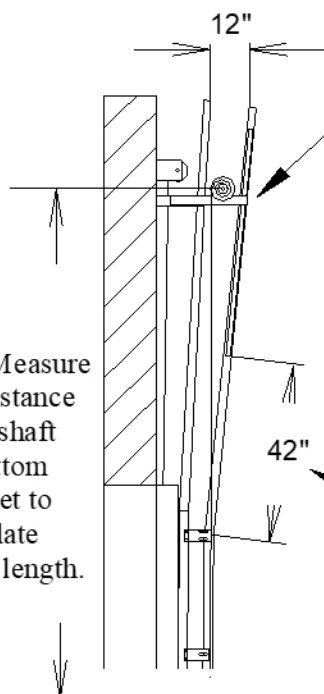
2.3) Install torsion bar mounting brackets on each side (Flat side out). If you have one, install torsion bar support first.

2.4) Install torsion bar and springs as shown using red $\frac{3}{8}$ " bolts. Use center support, 2- $\frac{1}{2}$ " red bolts and torsion bar support if door is over 10 feet 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.

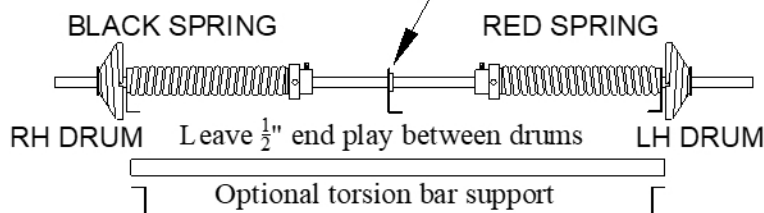
2.6) Measure the distance from shaft to bottom bracket to calculate cable length.

2.5) Install drums on shaft as shown. Leave $\frac{1}{4}$ " end play to prevent binding. New cable will go behind drum.



LOOKING FROM THE INSIDE TOWARDS THE DOOR

A center support is required on doors 10' and wider.



- 3) 3.1) Re-using the 2 PK's mount left hinge (numbers down) with roller on the top of the bottom section left side only. Re-using the 3 red self drillers mount left bottom bracket with roller on the bottom section left side only. Secure shaft collars within 1 inch of the end of the stem of the roller.



See **BOTTOM BRACKET INSTALLATION** on **SAFETY** page

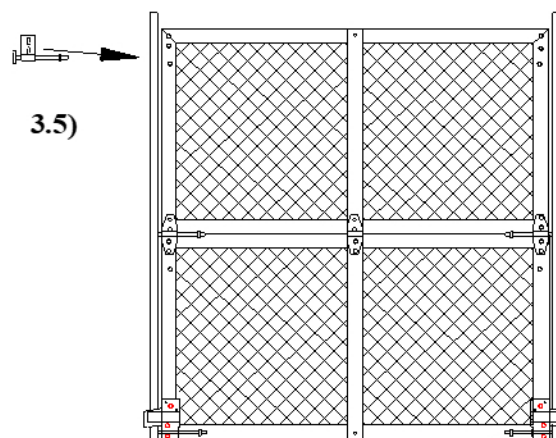
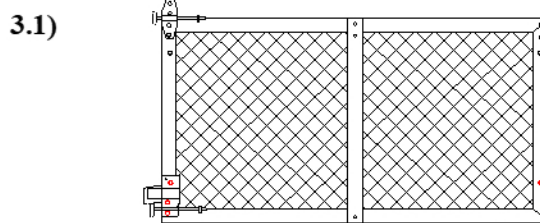
- 3.2) Install section into track.

- 3.3) Re-using the 2 self drillers mount right hinge (numbers down) with roller on the bottom section right side. Re-using the 3 red self drillers mount right bottom bracket with roller on the bottom section right side. Using 2 1/4-20 self drillers mount center hinge (numbers down).

- 3.4) If only 2 sections go to 3.5, otherwise, re-using the 2 self drillers mount left hinge (numbers down) with roller on the top of the next section. Lift up onto previous section. Hold it steady while the 6 hinges are fully installed.

- 3.5) Re-using the 2 self drillers mount left top bracket with roller on the top of the top section. Hold it steady while the 3 hinges are fully installed. Re-using the 2 self drillers mount right top bracket with roller on the top of the top section.

See **TOP CARRIERS WARNING** on **SAFETY** page



- 4) 4.1) 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.

- 4.2) Install down lock and handle with self-drillers. Lock door.

- 4.3) Carefully measure the cables and flatten stops into position. Cut off excess cable.

See **SPRINGS WARNING** on **SAFETY** page.



- 4.4) Install cables behind drums and wind springs as specified on the front cover. Tension one spring with 2 winds, then go to other and wind fully. Stretch the spring out the width of 2 coils then tighten set screws. Go back to the first spring, wind fully and stretch then tighten set screws. (Add or subtract turns as necessary to give positive door operation.)

- 4.5) Install pull rope on bottom under right hand roller.

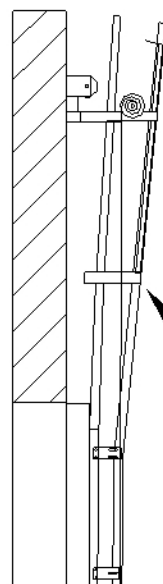
- 4.6) Tighten down all fasteners.

See **BUMPER SPRINGS WARNING** on **SAFETY** page.



- 4.7) Install stop springs to stop gate above top of opening.

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



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