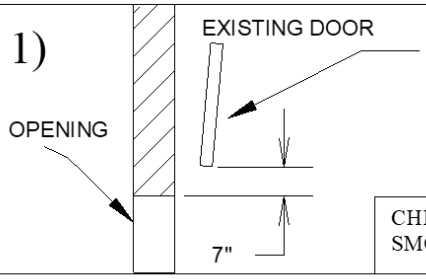
SECURITY DOOR 3" SWITCH TRACK VERTICAL LIFT

1)



1.1) Readjust existing door so that in the full up position the bottom will be a minimum of 7 inches above the top of the opening.

1.2) Readjust spring stop bumpers or travel on motor operated door. If necessary cut 7 inches off existing cable and add turns to the existing springs.

CHECK AND REPAIR THE EXISTING DOOR AND TRACK FOR PROPER AND SMOOTH OPERATION. REPLACE EXISTING VERTICAL TRACK IF REQUIRED.

2)

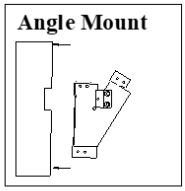
2.1) Measure down 14" from top of opening and cut track.

2.2) Measure up 7" and cut track off.

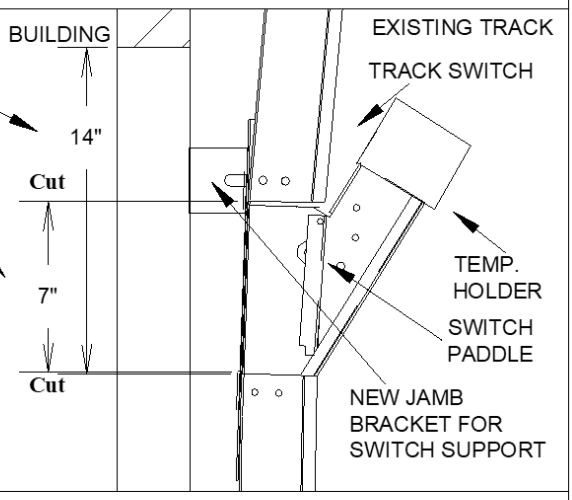
2.3) Jamb bracket mounted - Remove brackets in the way and install track switch with $\frac{1}{4}$" track bolts. Install 2 new jamb brackets to wall and switch using flange nuts.

2.4) Angle mounted - Notch out angle for switch. Install track switch with $\frac{1}{4}$" track bolts and nylon stop lock nuts provided.

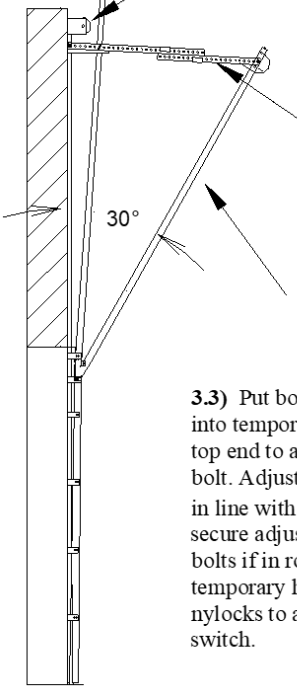
Angle Mount



2.5) Check paddle for crisp action.

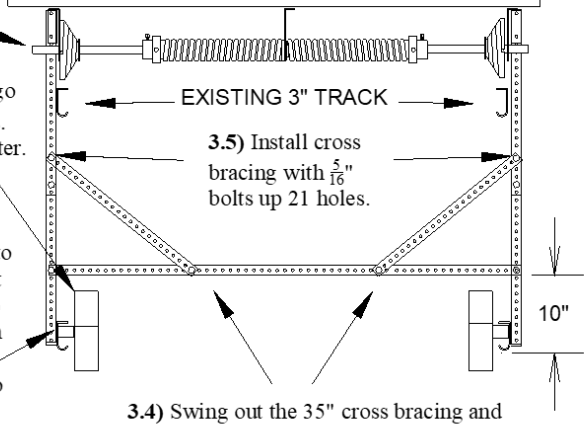


3)



EXISTING TORSION BAR AND SPRINGS

TOP VIEW



3.1) Calculate where bumper springs are to go and install with $\frac{3}{8}$" bolts. You can aslo do this later.

3.2) Install adjustable punched angle (NA for doors taller than 14') onto existing angle to support new track. (Flat Side In) May need to slope down to catch track or make new lower attachment to wall.

3.3) Put bottom of new upper vertical track into temporary holder on track switch. Attach top end to adjustable punched angle with 1 bolt. Adjust punched angle until upper track is in line with switch.Use 2 each $\frac{5}{16}$" bolts to secure adjustable angle and more bolts (track bolts if in roller area) for the track. Discard temporary holder and use track bolts and nylocks to attach bottom end of track to switch.

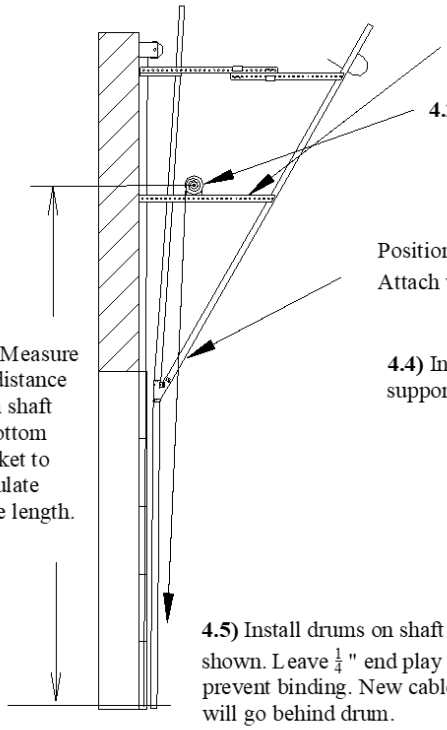
3.4) Swing out the 35" cross bracing and install pre-cut punched angle between tracks 10" from edge of the track. Check the inside width of the new track is the same as the inside width of the existing track.

3.5) Install cross bracing with $\frac{5}{16}$" bolts up 21 holes.

See BRACING WARNING on SAFETY page.

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

4)



4.1) Cut heavy punched angle and attach at least half way up track to mount torsion bar bearings.

4.2) Install torsion bar bearing brackets to new angle. FLAT SIDE OUT

Position bearing brackets to keep cable clear of existing door, new track and switch. Attach with $\frac{3}{8}$" red bolts. Use 2-$\frac{1}{2}$" red bolts if you have a torsion bar support.

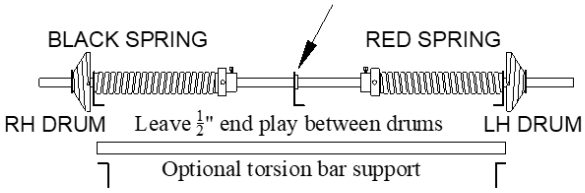
4.3) Measure the distance from shaft to bottom bracket to calculate cable length.

4.4) Install torsion bar and springs as shown. Pre-assembled center support and torsion bar support if door is over 10 feet wide.

4.5) 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.

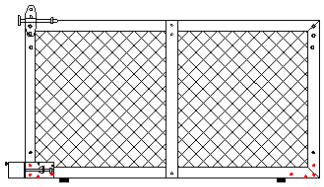


5)

5.1) Re-using the 2 self drillers mount left hinge (numbers down) with roller on the top of the bottom section left side only. Re-using the 4 red self drillers mount left bottom bracket with roller on the bottom section left side only. Secure all shaft collars within 1 inch of the end of the stem of the roller except the 2 top rollers.

See BOTTOM BRACKET INSTALLATION on SAFETY page

5.1)

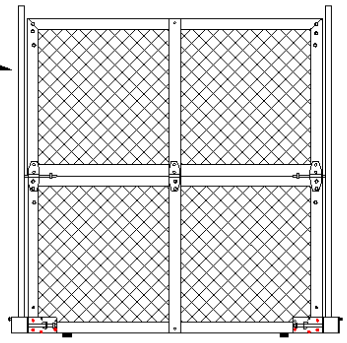


5.2) Install section into track.

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

6.1)

5.4)



5.4) If only 2 sections then lift next section up, install hinges and hold steady. 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 all the 6 hinges (8 hinges for wider doors) are fully installed. Use 1/4-20 self drillers for all center hinges. Repeat this step until all sections are in and hold top section in place.

6)

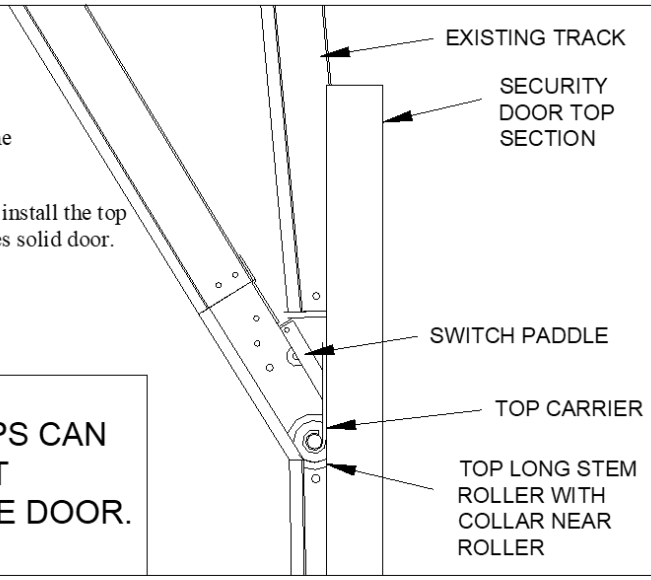
6.1) Install the top carrier with $\frac{1}{4}$ -20 self-drillers. Use the long stem rollers with collars on the inside.

6.2) Position the top carrier so that the roller is at the bottom of the switch paddle.

6.3) If you did not do 1.1 and 1.2 then position and install the top carriers so that the top section leans back and misses solid door.

See TOP CARRIERS WARNING on SAFETY page

FAILURE TO FOLLOW THESE STEPS CAN RESULT IN ROLLERS COMING OUT BECAUSE OF BACK BREAKING THE DOOR.



7)

7.1) 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.

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

7.3) Cut off excess cable.

7.4) Make sure bumper springs are installed.

See BUMPER SPRINGS WARNING on SAFETY page.

Door may come out of track if bumper spring is not installed.

8)

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

See SPRINGS WARNING on SAFETY page.

8.2) 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.)

8.3) Move pull rope on existing door in toward center 4 to 6 inches. (This keeps it from being trapped in the track switch.)

8.4) Install pull rope on the security door.

8.5) Check that the door sits level with no interference while moving up. (Readjust drum position if necessary to level door.)

8.6) Check that the door does not rub on the door frame in the down position. (Readjust track as necessary to provide clearance.)

8.7) RE-CHECK ALL HINGE BOLTS AND FASTENERS FOR TIGHTNESS.