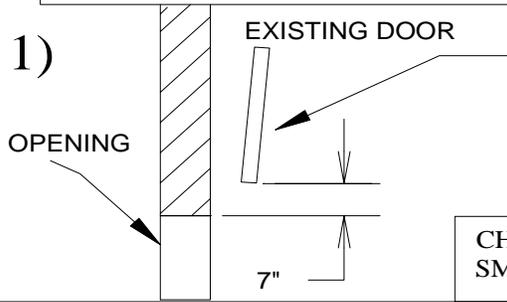


# SECURITY DOOR 3" SWITCH TRACK VERTICAL LIFT

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)

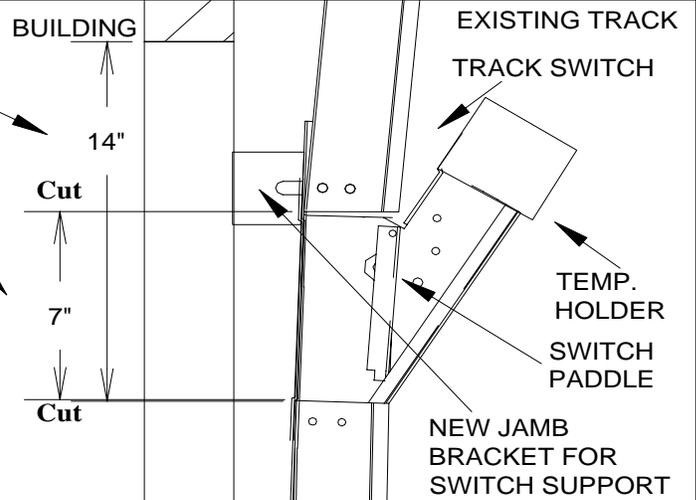
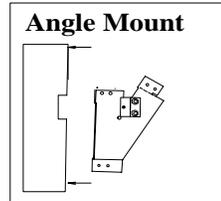
2.1) Measure down 14" from top of opening and cut track.

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.

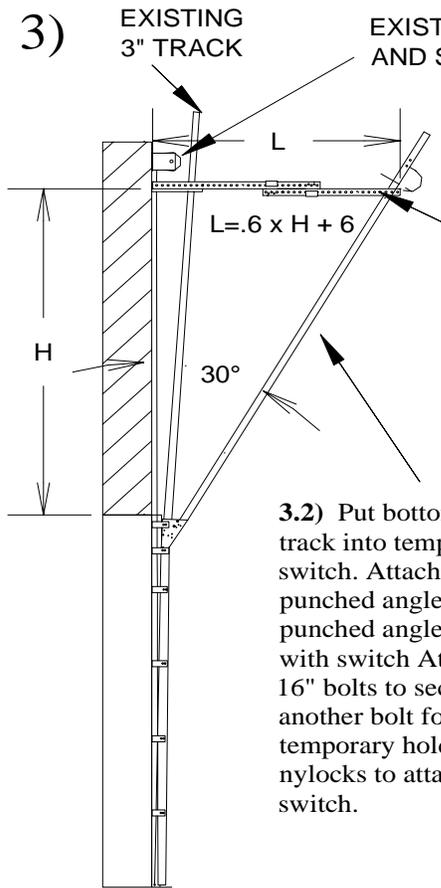
2.5) Check paddle for crisp action.



3)

EXISTING 3" TRACK

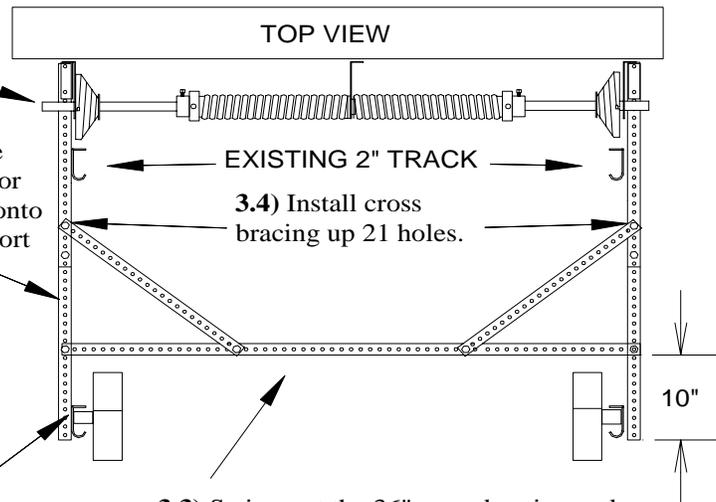
EXISTING TORSION BAR AND SPRINGS



3.1) Install adjustable punched angle (NA for doors taller than 14') onto existing angle to support new track. (Flat Side In)

3.2) 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 At 30 degrees. Use 2 each  $\frac{5}{16}$ " bolts to secure adjustable angle and another bolt for the track. Discard temporary holder and use track bolts and nylocks to attach bottom end of track to switch.

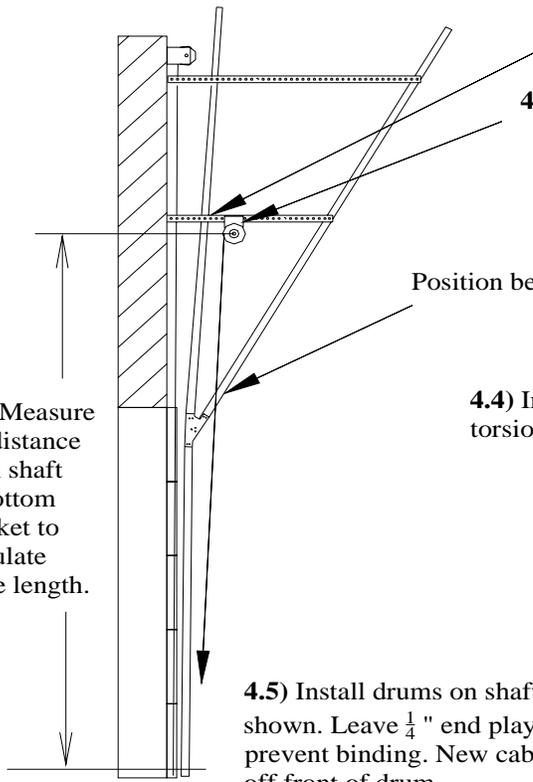
TOP VIEW



3.3) Swing out the 36" cross bracing and install pre-cut punched angle between tracks 11" from end of the horizontal punched angles. Check the inside width of the new track is the same as the inside width of the existing track.

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

4)



4.1) Add angle brace half way up track to mount torsion bar bearings.

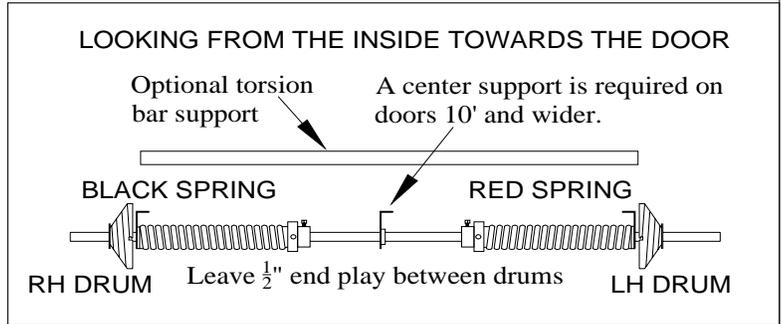
4.2) Install torsion bar bearing brackets to new angle. FLAT SIDE OUT

Position bearing brackets to keep cable clear of track and switch.

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

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

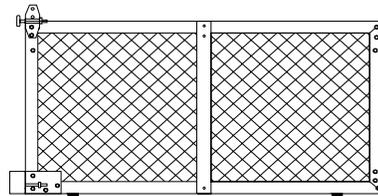
4.5) Install drums on shaft as shown. Leave  $\frac{1}{4}$ " end play to prevent binding. New cable off front of drum.



5)

5.1) 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 4 PK's mount left bottom bracket with roller and cable on the bottom section left side only.

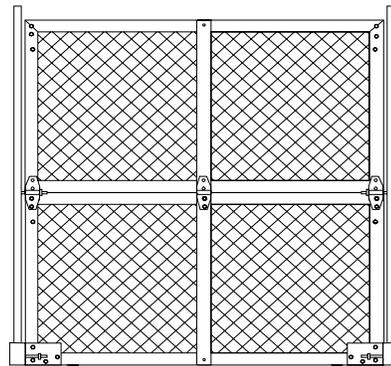
5.1)



5.2) Install section into track.

5.3) Re-using the 2 PK's mount right hinge (numbers down) with roller on the bottom section right side. Re-using the 4 PK's mount right bottom bracket with roller and cable on the bottom section right side. Using 2 PK's mount center hinge (numbers down).

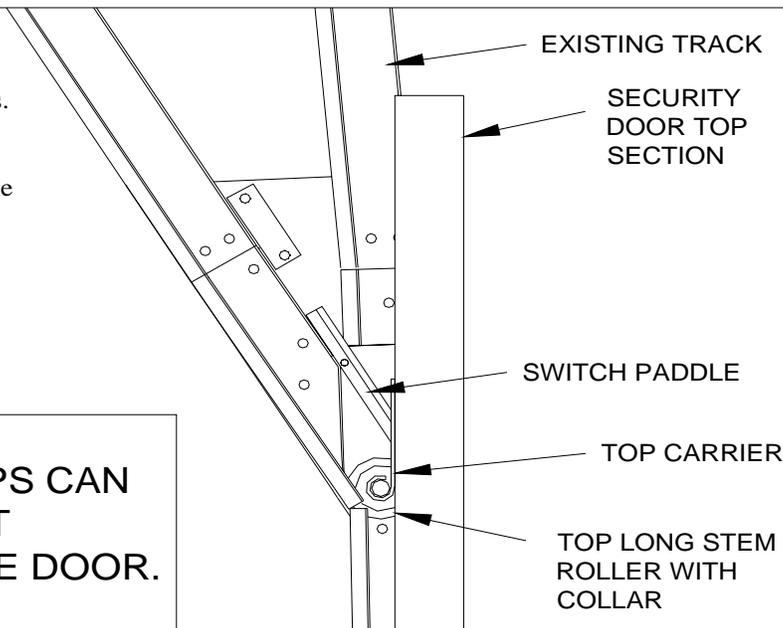
5.4) Re-using the 2 PK's mount left hinge (numbers down) with roller on the top of the next section. Lift up onto previous section. Hold it steady while all the 6 hinges are fully installed.



6) 6.1) Install the top carrier with  $\frac{1}{4}$ " -20 pk's (self-drillers). Use the long stem rollers with collars.

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

**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.

8) 8.1) Install down lock and handle with PK's (self-drillers).

8.2) Install cables off front of drums and wind springs as specified on the front cover. ( Add or subtract turns as necessary to give positive door operation.)

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

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

8.5) Install pull rope on the security door.

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

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

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