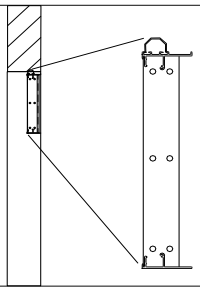
SCREEN DOOR 2" SWITCH TRACK STANDARD LIFT WITH FIXED PANEL

1)



1.1) Using the 2" x 2" angles mount the fixed panel with the rubber on top and the flat rail on the bottom. The two rails should be flush with opening.

2.1) Measure down 7" from bottom of panel and cut track.

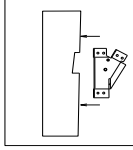
2.2) Measure up 4-$\frac{1}{2}$" and cut track off.

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.

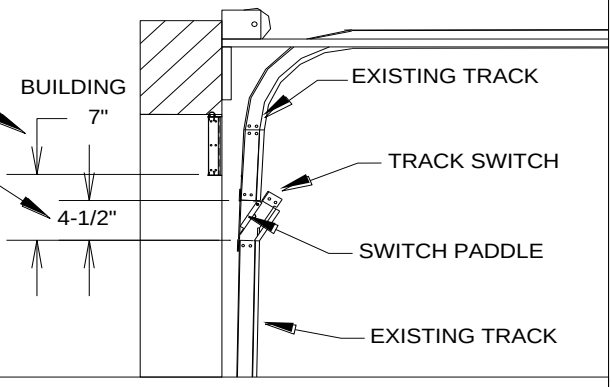
2.5) Check the switch paddle for crisp snap action. Move upper track as necessary to provide necessary clearance.

Angle Mount



2.6) To promote smooth roller action through the switch some bending of the track ends may be needed so that curved part of track matches up with switch paddle.

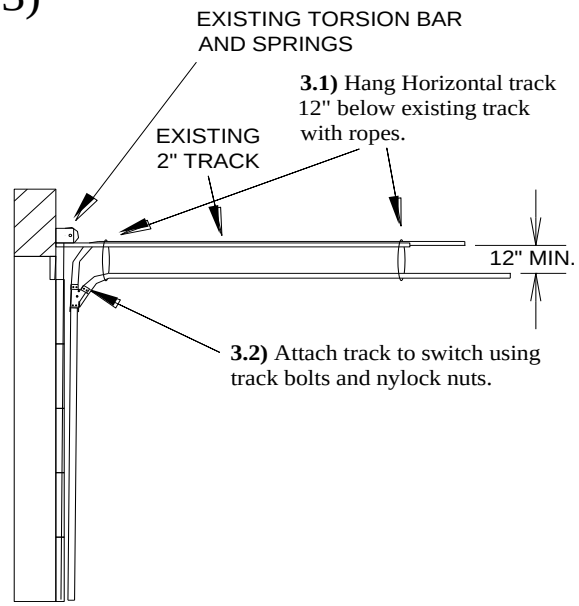
2)



CHECK AND REPAIR THE EXISTING DOOR AND TRACK FOR PROPER AND SMOOTH OPERATION.

REPLACE EXISTING VERTICAL TRACK IF REQUIRED.

3)



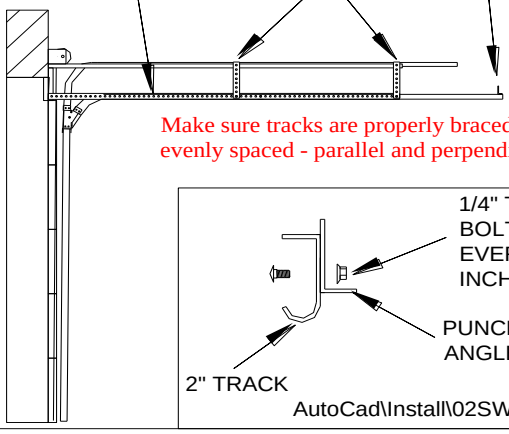
3.1) Hang Horizontal track 12" below existing track with ropes.

3.2) Attach track to switch using track bolts and nylock nuts.

4)

4.1) Install angle from wall back, to brace horizontal track.

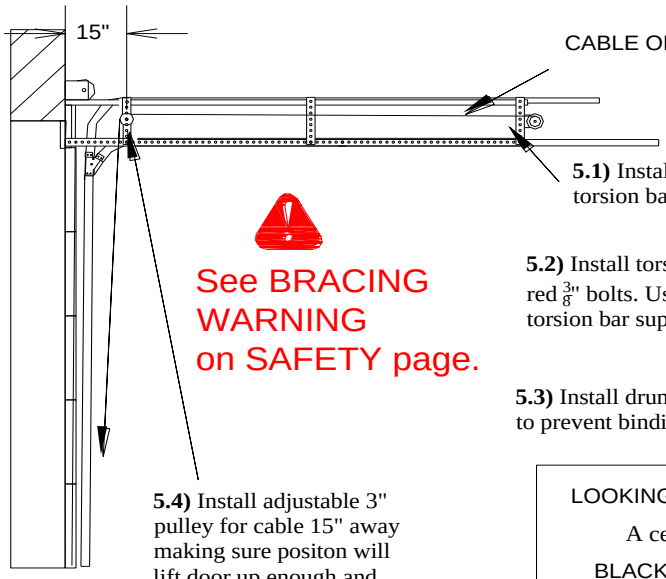
4.2) Install vertical supports between tracks and remove ropes. Horizontal bracing between the new tracks may be needed if less than 10' wide.



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

AutoCad\Install\02SW-NF \p.1

5)



5.1) Install torsion bar bearing brackets for rear mount torsion bar assembly - FLAT SIDE OUT.

See BRACING WARNING on SAFETY page.

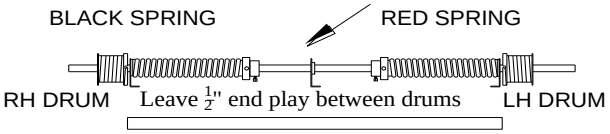
5.2) Install torsion bar and springs as shown using red $\frac{3}{8}$" bolts. Use center support, 2-$\frac{1}{2}$" red bolts and torsion bar support if door is over 10 feet wide.

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

5.4) Install adjustable 3" pulley for cable 15" away making sure positon will lift door up enough and cable will clear track switch.

LOOKING UP FROM THE INSIDE TOWARDS THE DOOR

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



6)

6.1) Install on the bottom section the right bottom bracket with 6 red self-drillers and 2 flange nuts. Install #1 center hinges and a #1hinge on the right end FINGER TIGHT. (INSTALL THE HINGES WITH THE NUMBERS DOWN)

See BOTTOM BRACKET INSTALLATION on SAFETY page

6.2) 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.)

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

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

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

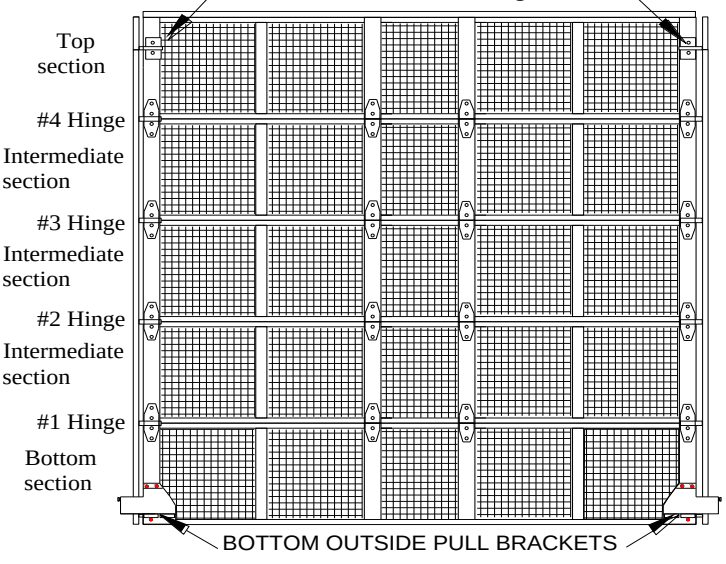
6.6) Install the rest of the sections using the next higher number hinge on each section.

6.7) Attach the top roller carriers so that rollers are at TRACK SPLICE. (At least 8" from top of door)

NOTE: IF THE EXISTING DOOR IS 3" THICK THE END HINGES ON THE BOTTOM START WITH #5

TOP CARRIERS AT BOTTOM OF TRACK SWITCH

All centers are #1 hinges.

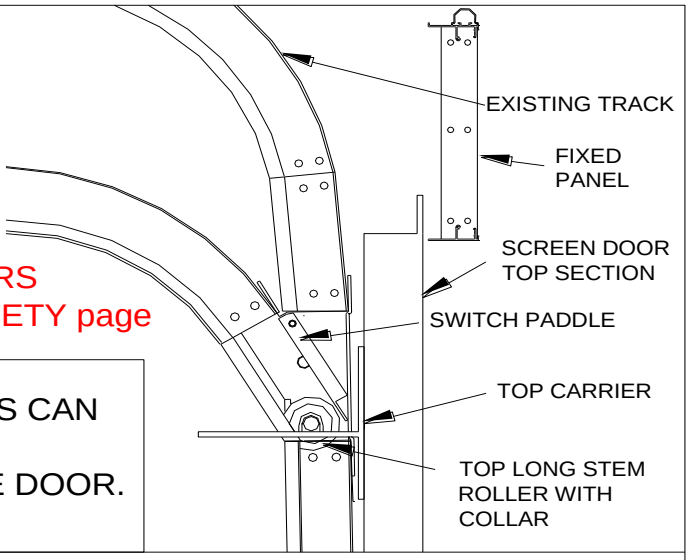


7)

7.1) Install the top carrier with $\frac{1}{4}$-20 self-drillers. Use the long stem rollers with collars to ensure both sides are evenly spaced.

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

7.3) Adjust the slide on the top bracket to close the top section of the opening.



See TOP CARRIERS WARNING on SAFETY page

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

8)

8.1) Measure the distance from the torsion shaft to the pulley to the floor and calculate the cable length as follows:

DRUMS:

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

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

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

8.3) Cut off excess cable.

9)

9.1) Install down lock and handle with self-drillers.

See SPRINGS WARNING on SAFETY page.

9.2) 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.)

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

See BUMPER SPRINGS WARNING on SAFETY page.

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

9.5) Install pull rope on the screen door.

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

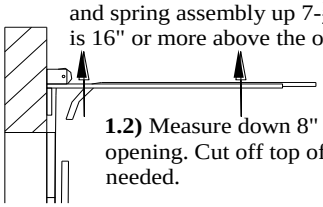
9.7) Check that the door does not rub on the door frame in the down position.
(Readjust track as necessary to provide clearance.)

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

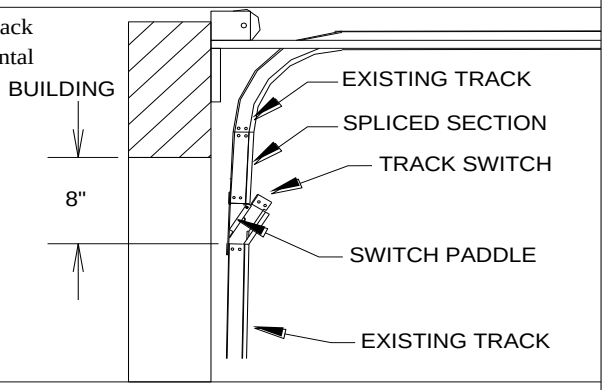
SCREEN DOOR 2" SWITCH TRACK STANDARD LIFT

1)

1.1) Unwind the existing springs. Move the horizontal track and spring assembly up 7-$\frac{1}{2}$" and reinstall. (If the horizontal is 16" or more above the opening this is unnecessary.)



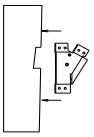
1.2) Measure down 8" from top of the opening. Cut off top of vertical track if needed.



1.3) 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.

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

Angle Mount

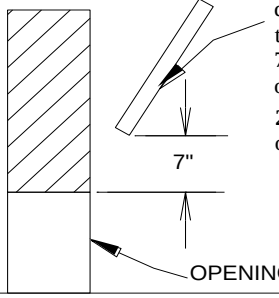


1.5) Install high lift section to fill the gap if needed.

1.6) Check the switch paddle for crisp snap action. Move upper track as necessary to provide necessary clearance.

1.7) To promote smooth roller action through the switch some bending of the track ends may be needed so that curved part of track matches up with switch paddle.

2)



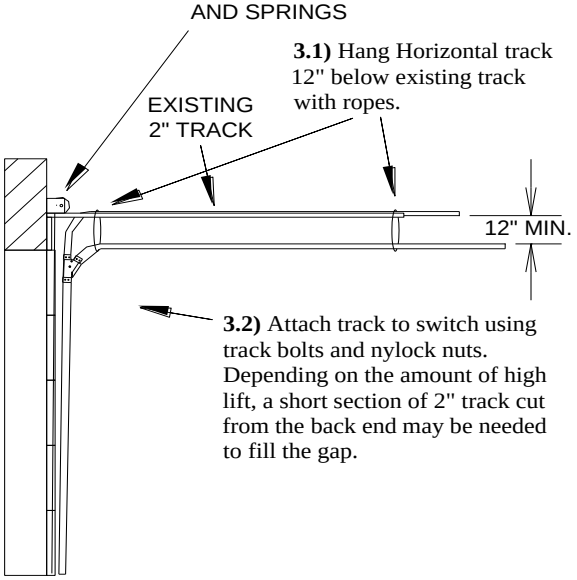
2.1) Rewind the springs on the door so that in the full up position the bottom will be a minimum of 7 inches above the top of the opening.

2.2) Readjust spring stop bumpers or travel on motor operated door.

CHECK AND REPAIR THE EXISTING DOOR AND TRACK FOR PROPER AND SMOOTH OPERATION.

REPLACE EXISTING VERTICAL TRACK IF REQUIRED.

3)



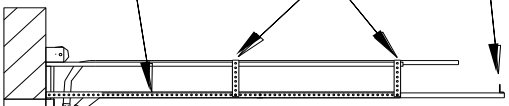
3.1) Hang Horizontal track 12" below existing track with ropes.

3.2) Attach track to switch using track bolts and nylock nuts. Depending on the amount of high lift, a short section of 2" track cut from the back end may be needed to fill the gap.

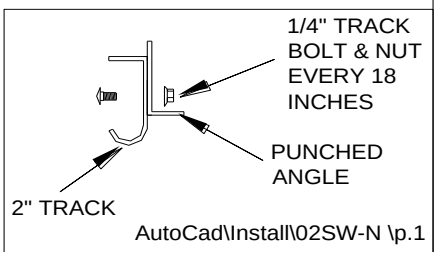
4)

4.1) Install angle from wall back, to brace horizontal track.

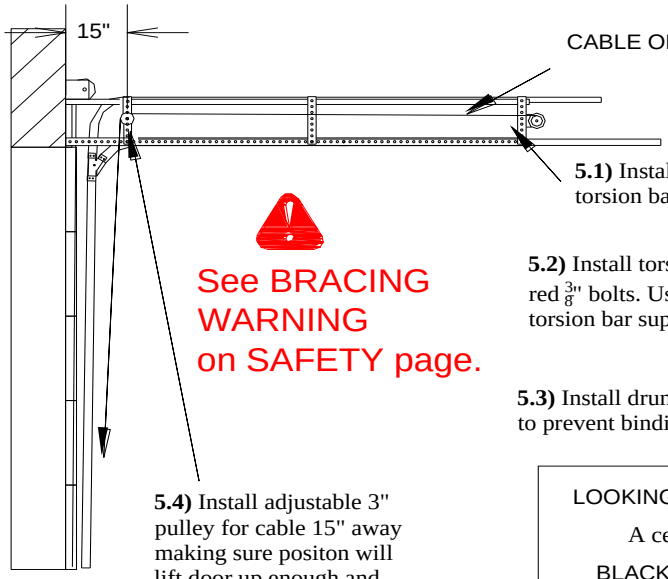
4.2) Install vertical supports between tracks and remove ropes. Horizontal bracing between the new tracks may be needed if less than 10' wide.



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



5)



5.1) Install torsion bar bearing brackets for rear mount torsion bar assembly - FLAT SIDE OUT.

See BRACING WARNING on SAFETY page.

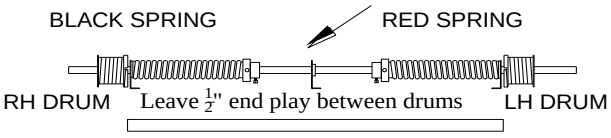
5.2) Install torsion bar and springs as shown using red $\frac{3}{8}$" bolts. Use center support, 2-$\frac{1}{2}$" red bolts and torsion bar support if door is over 10 feet wide.

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

5.4) Install adjustable 3" pulley for cable 15" away making sure positon will lift door up enough and cable will clear track switch.

LOOKING UP FROM THE INSIDE TOWARDS THE DOOR

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



6)

6.1) Install on the bottom section the right bottom bracket with 6 red self-drillers and 2 flange nuts. Install #1 center hinges and a #1hinge on the right end FINGER TIGHT. (INSTALL THE HINGES WITH THE NUMBERS DOWN)

See BOTTOM BRACKET INSTALLATION on SAFETY page

6.2) 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.)

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

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

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

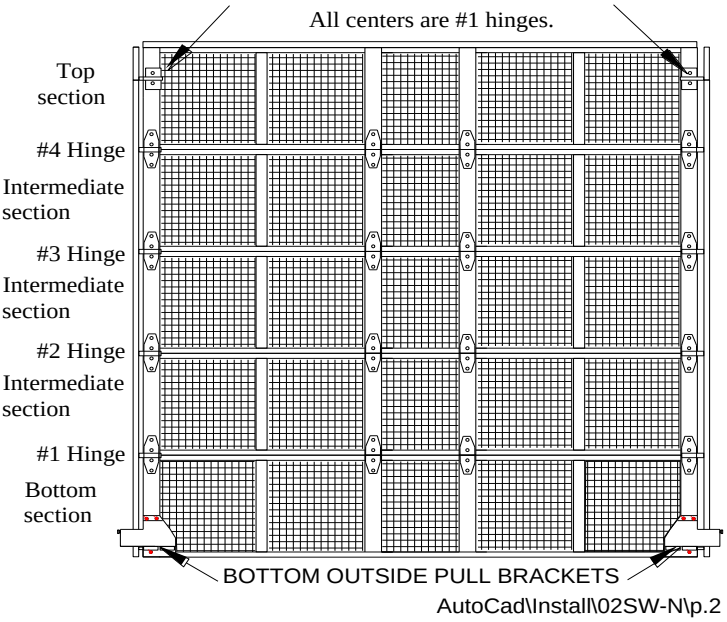
6.6) Install the rest of the sections using the next higher number hinge on each section.

6.7) Attach the top roller carriers so that rollers are at TRACK SPLICE. (At least 8" from top of door)

NOTE: IF THE EXISTING DOOR IS 3" THICK THE END HINGES ON THE BOTTOM START WITH #5

TOP CARRIERS AT BOTTOM OF TRACK SWITCH

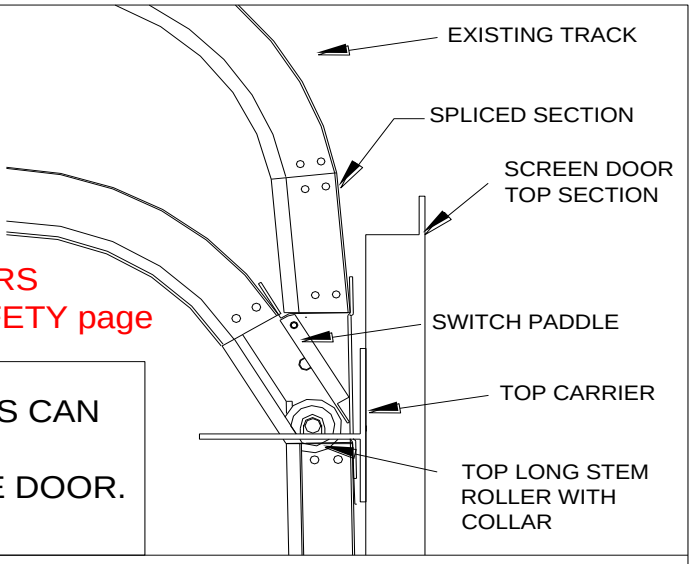
All centers are #1 hinges.



7) **7.1)** Install the top carrier with $\frac{1}{4}$-20 self-drillers. Use the long stem rollers with collars to ensure both sides are evenly spaced.

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

7.3) Adjust the slide on the top bracket to close the top section of the opening.



See TOP CARRIERS WARNING on SAFETY page

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

8) **8.1)** Measure the distance from the torsion shaft to the pulley to the floor and calculate the cable length as follows:

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

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

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

8.3) Cut off excess cable.

9) **9.1)** Install down lock and handle with self-drillers.

See SPRINGS WARNING on SAFETY page.

9.2) 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.)

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

See BUMPER SPRINGS WARNING on SAFETY page.

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

9.5) Install pull rope on the screen door.

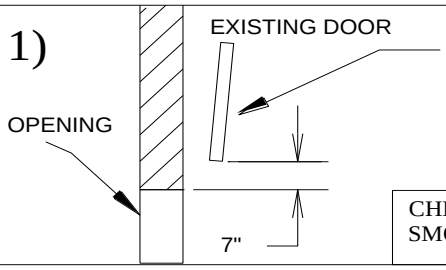
9.6) Check that the door sits level with no interference while moving up.
(Readjust drum position if necessary to level door.)

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

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

SCREEN DOOR 2" SWITCH TRACK HIGH 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. Very tall or very thick doors may need even more clearance.

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)

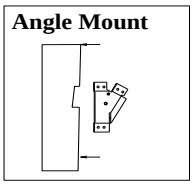
2.1) Measure down 10" from top of opening and cut track.

2.2) Measure up 4-$\frac{1}{2}$" 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.

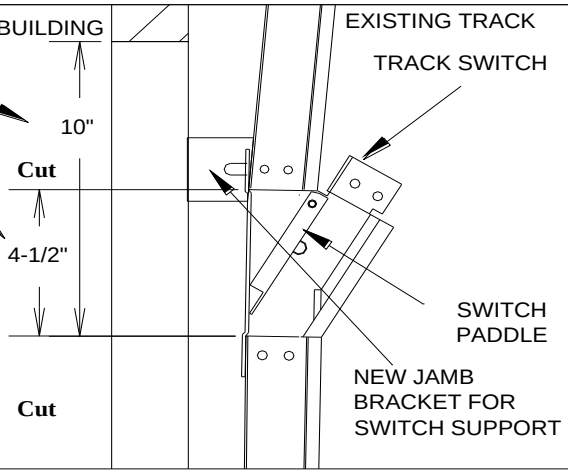
2.4) Angle mounted - Notch out angle for switch. Install track switch with $\frac{1}{4}$" track bolts and nylon stop lock nuts provided.

Angle Mount

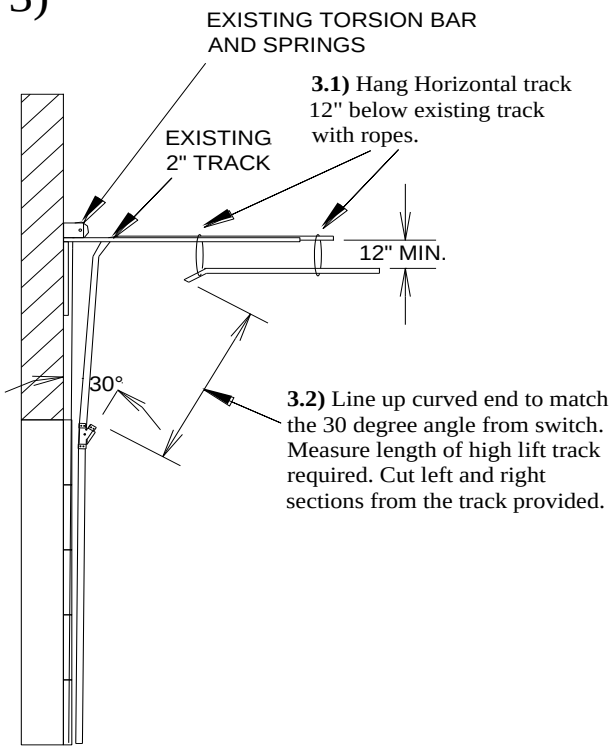


2.5) Check paddle for crisp action.

2.6) To promote smooth roller action through the switch some bending of the track ends may be needed so that curved part of track matches up with switch paddle.



3)



3.1) Hang Horizontal track 12" below existing track with ropes.

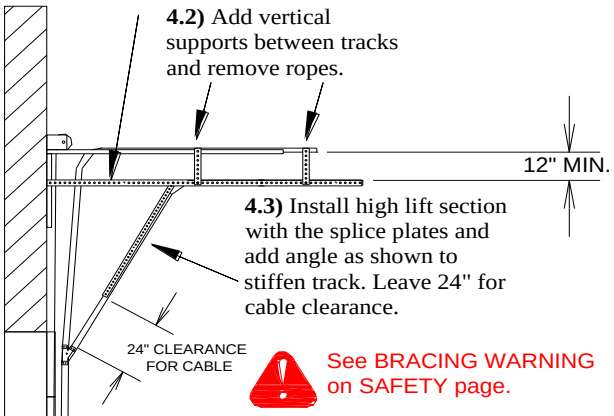
3.2) Line up curved end to match the 30 degree angle from switch. Measure length of high lift track required. Cut left and right sections from the track provided.

4)

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

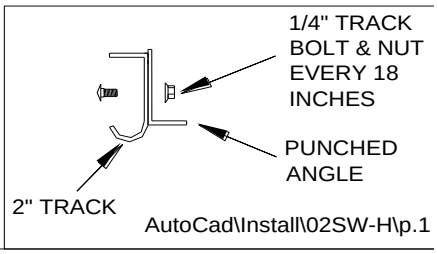
4.1) Install angle from wall back, to brace horizontal track.

4.2) Add vertical supports between tracks and remove ropes.

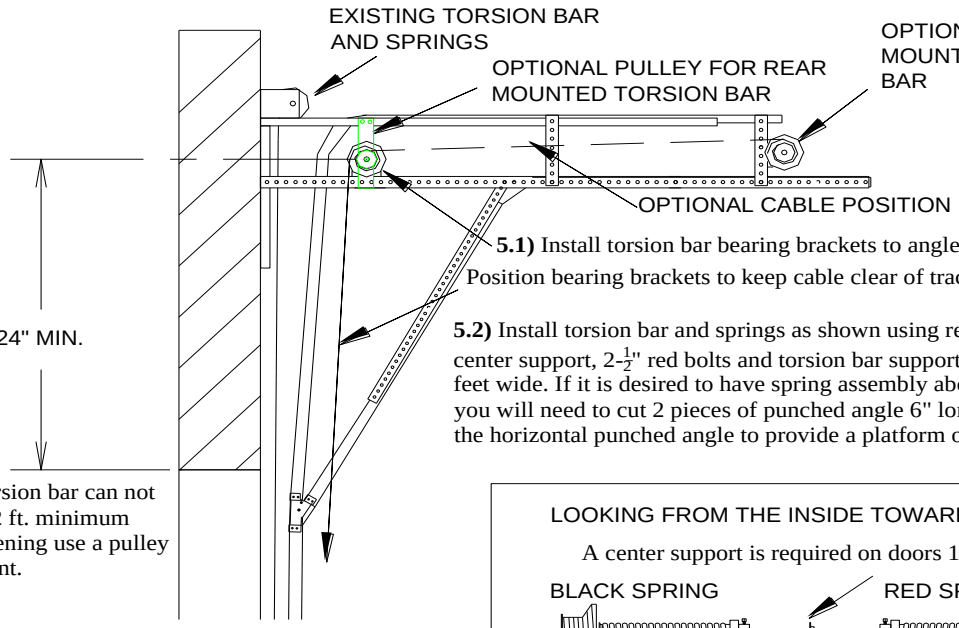


4.3) Install high lift section with the splice plates and add angle as shown to stiffen track. Leave 24" for cable clearance.

See BRACING WARNING on SAFETY page.



5)



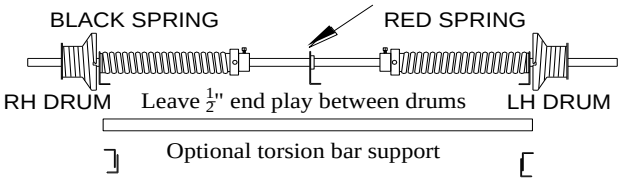
If the new torsion bar can not be mounted 2 ft. minimum above the opening use a pulley and rear mount.

5.1) Install torsion bar bearing brackets to angle. FLAT SIDE OUT. Position bearing brackets to keep cable clear of track and switch.

5.2) 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. If it is desired to have spring assembly above punched angle you will need to cut 2 pieces of punched angle 6" long and attach it to the horizontal punched angle to provide a platform of attachment.

LOOKING FROM THE INSIDE TOWARDS THE DOOR

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



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

6)

6.1) Install on the bottom section the right bottom bracket with 6 red self-drillers and 2 flange nuts. Install #1 center hinges and a #1hinge on the right end FINGER TIGHT. (INSTALL THE HINGES WITH THE NUMBERS DOWN)

See BOTTOM BRACKET INSTALLATION on SAFETY page

6.2) 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.)

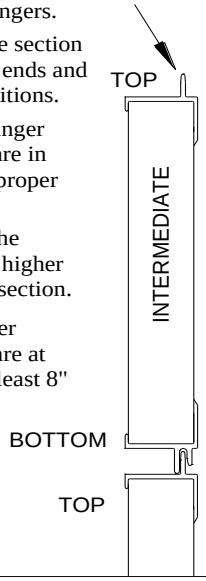
6.3) Identify the top of an intermediate section. The top has only one finger and the bottom has 2 fingers.

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

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

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

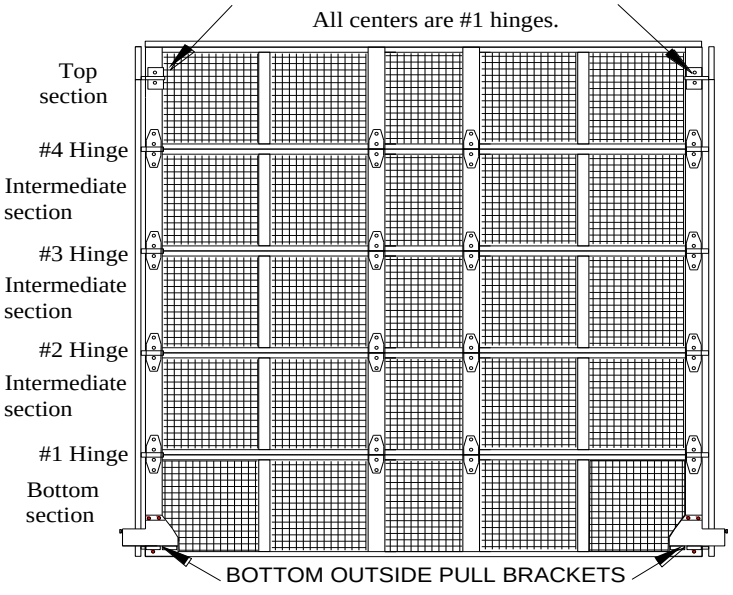
6.7) Attach the top roller carriers so that rollers are at TRACK SPLICE. (At least 8" from top of door)



NOTE: IF THE EXISTING DOOR IS 3" THICK THE END HINGES ON THE BOTTOM START WITH #5

TOP CARRIERS AT BOTTOM OF TRACK SWITCH

All centers are #1 hinges.



7)

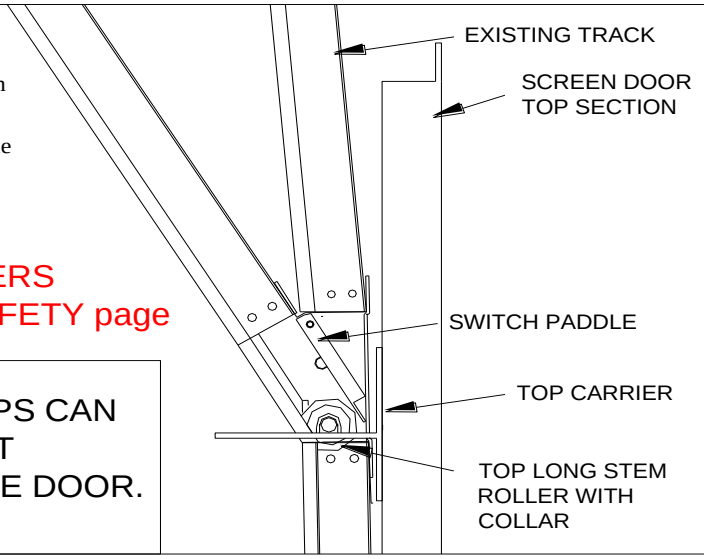
7.1) Install the top carrier with $\frac{1}{4}$-20 self-drillers. Use the long stem rollers with collars to ensure both sides are evenly spaced.

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

7.3) Adjust the slide on the top bracket to close the top section of the opening.

See TOP CARRIERS WARNING on SAFETY page

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

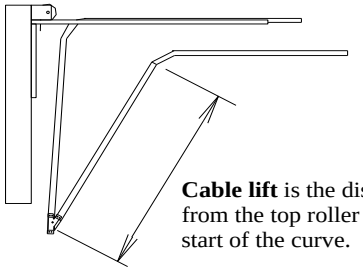


8)

8.1) 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.)

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.



Cable lift is the distance from the top roller to the start of the curve.

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

8.3) Cut off excess cable.

9)

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

See SPRINGS WARNING on SAFETY page.

9.2) 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.)

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

See BUMPER SPRINGS WARNING on SAFETY page.

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

9.5) Install pull rope on the screen door.

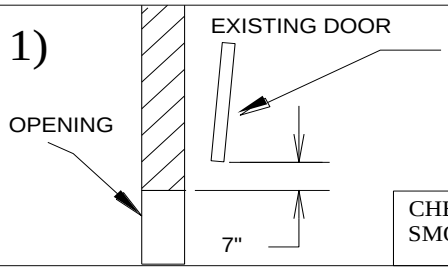
9.6) Check that the door sits level with no interference while moving up.
(Readjust drum position if necessary to level door.)

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

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

SCREEN DOOR 2" 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. Very tall or very thick doors may need even more clearance.

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 10" from top of opening and cut track.

2.2) Measure up 4-$\frac{1}{2}$" and cut track off.

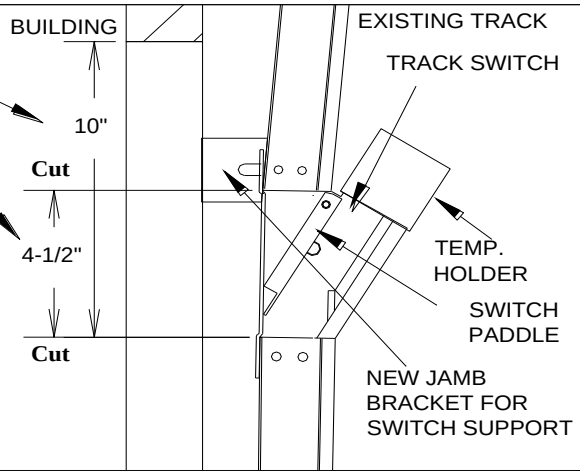
2.3) Jamb bracket mounted - Remove brackets in the way and install track switch with $\frac{1}{4}$" track bolts. Install 2 new jamb brackets to wall and switch using flange nuts.

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

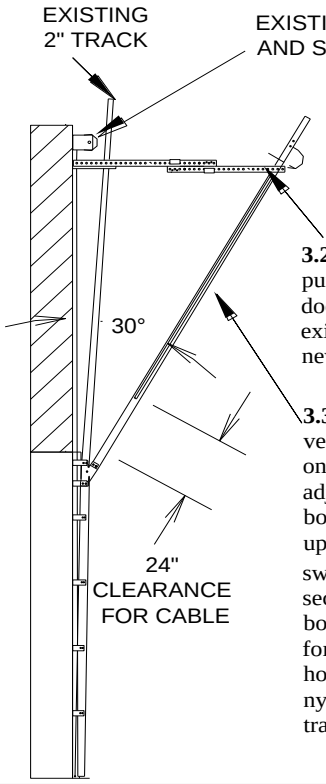
Angle Mount

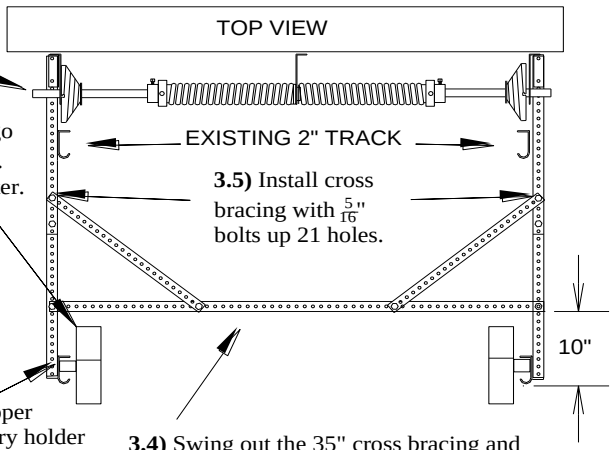
2.5) Check paddle for crisp action.

2.6) To promote smooth roller action through the switch some bending of the track ends may be needed so that curved part of track matches up with switch paddle.



3)





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)

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.

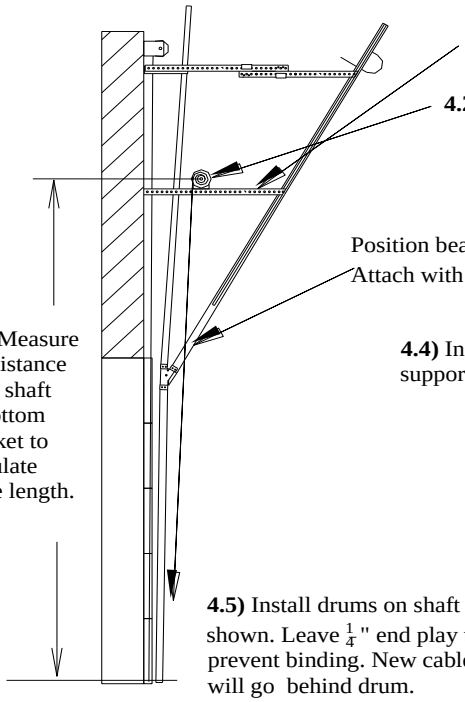
3.4) Swing out the 35" cross bracing and install pre-cut punched angle between tracks 10" from edge of the track. Check the inside width of the new track is the same as the inside width of the existing track.

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.

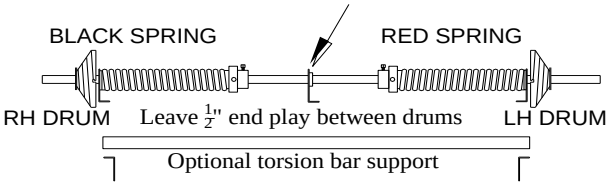
4.3) Measure the distance from shaft to bottom bracket to calculate cable length.

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) Install on the bottom section the right bottom bracket with 6 ea red self-drillers and 2 flange nuts. 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.

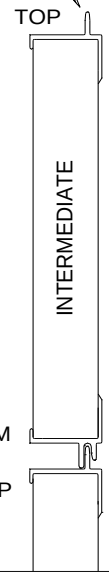
5.4) Install intermediate section using #2 hinges on top ends and #1 hinges in center positions.

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.

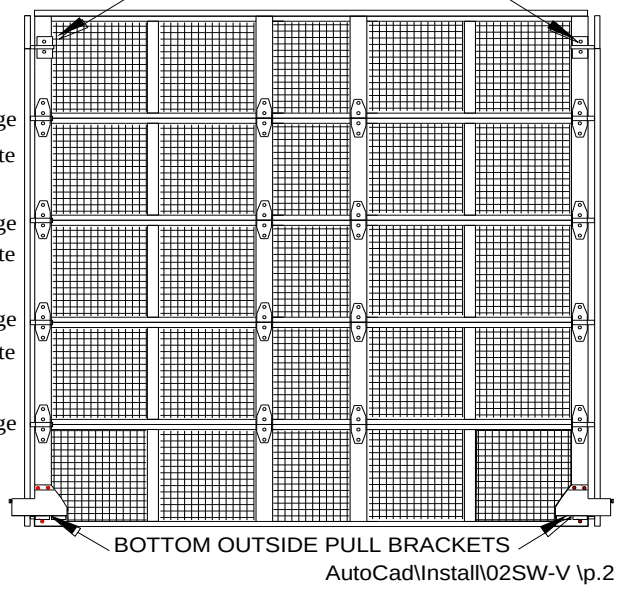
5.7) Attach the top roller carriers so that rollers are at TRACK SPLICE. (At least 8" from top of door)

See BOTTOM BRACKET INSTALLATION on SAFETY page



TOP CARRIERS AT BOTTOM OF TRACK SWITCH

All centers are #1 hinges.



NOTE: IF THE EXISTING DOOR IS 3" THICK THE END HINGES ON THE BOTTOM START WITH #5

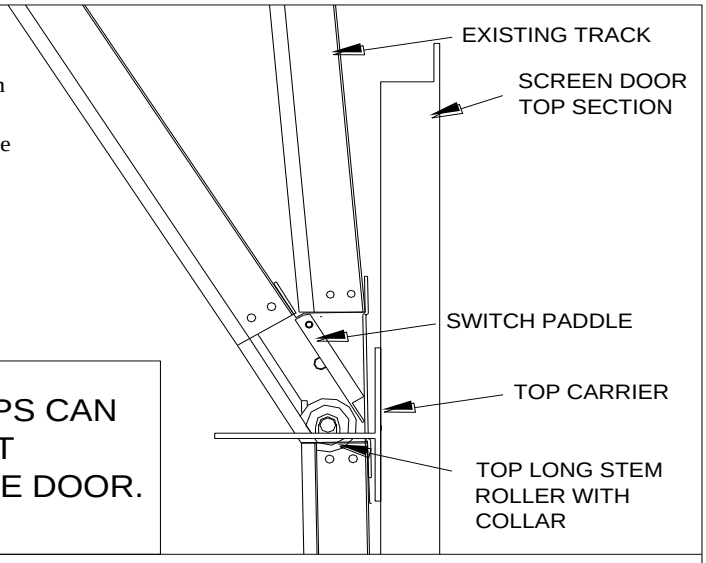
6)

6.1) Install the top carrier with $\frac{1}{4}$-20 self-drillers. Use the long stem rollers with collars to ensure both sides are evenly spaced.

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

6.3) Adjust the slide on the top bracket to close the top section of the opening.

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 screen door.

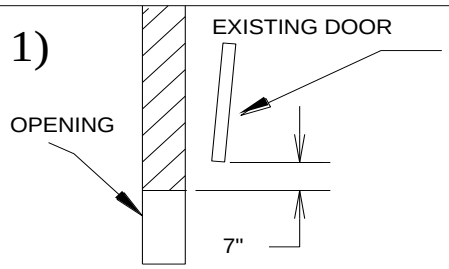
8.5) Check that the door sits level with no interference while moving up. (Readjust drum position if necessary to level door.)

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.

SECURITY DOOR 2" SWITCH TRACK STANDARD LIFT

1)



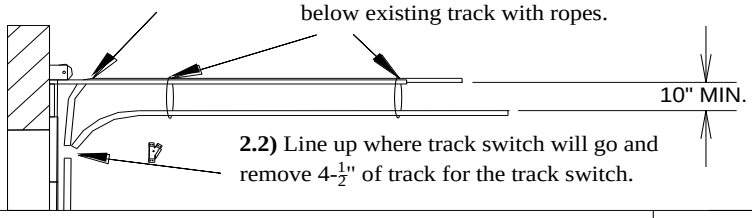
1.1) If you want the security door to come down parallel with opening then readjust existing door so that in the full up position the bottom will be a minimum of 7 inches above the top of the opening.

1.2) Because of the 32" radius track this may also require you to readjust spring stop bumpers or travel on motor operated door. If necessary cut off some existing cable and add turns to the existing springs.

1.3) Raising the existing track assembly even higher may be needed for a parallel security door which would mean changing out the existing door's cable, drum and springs. Typically high lifting a standard lift up 20" will make this possible. A high lift section of track should also be secured in place.

1.4) If existing door is already high lifted 25" or more then the only step needed is 1.1.

2)



2.1) Hang Horizontal track 10" below existing track with ropes.

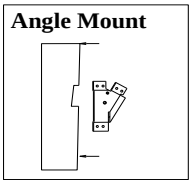
2.2) Line up where track switch will go and remove 4-$\frac{1}{2}$" of track for the track switch.

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

3)

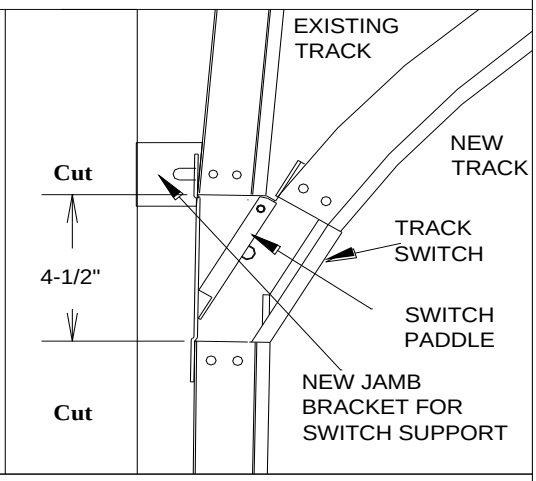
3.1) Jamb bracket mounted - Remove brackets in the way and install track switch with $\frac{1}{4}$" track bolts. Install 2 new jamb brackets to wall and switch using flange nuts.

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

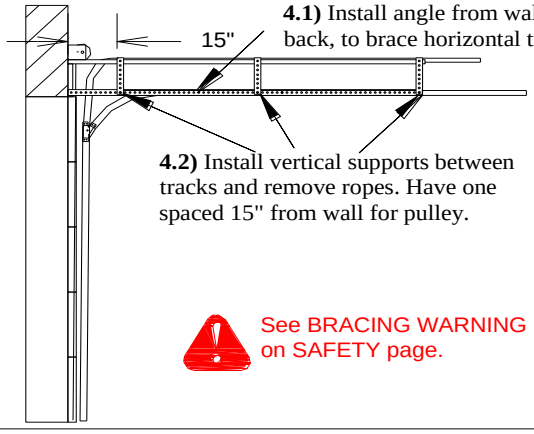


3.3) Check paddle for crisp action.

3.4) To promote smooth roller action through the switch some bending of the track ends may be needed so that curved part of track matches up with switch paddle.



4)

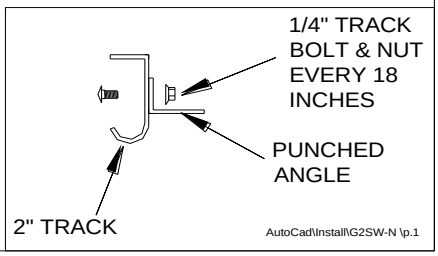


4.1) Install angle from wall back, to brace horizontal track.

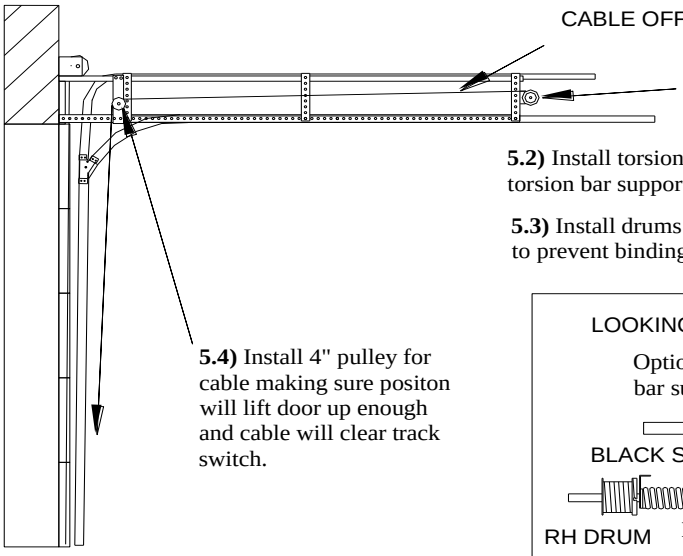
4.2) Install vertical supports between tracks and remove ropes. Have one spaced 15" from wall for pulley.

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

See BRACING WARNING on SAFETY page.



5)

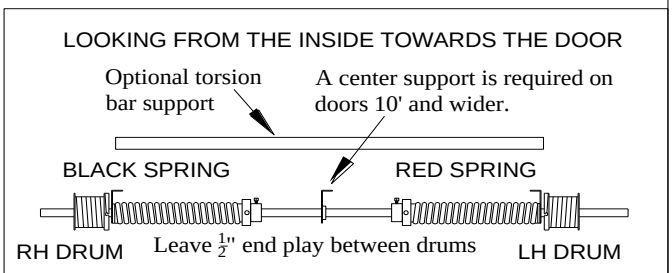


5.1) Install torsion bar bearing brackets for rear mount torsion bar assembly - FLAT SIDE OUT.

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

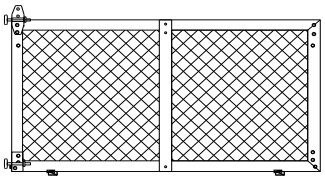
5.3) Install drums on shaft as shown. Leave $\frac{1}{4}$" end play to prevent binding. New cable off front of drum.

5.4) Install 4" pulley for cable making sure positon will lift door up enough and cable will clear track switch.



6)

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



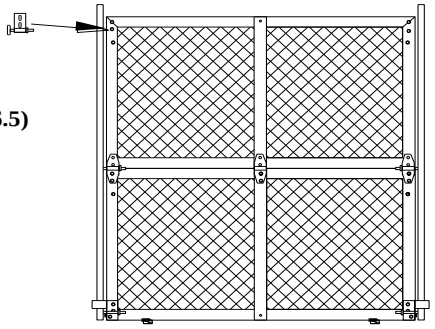
See BOTTOM BRACKET INSTALLATION on SAFETY page

6.2) Install section into track.

6.3) Re-using the 2 PK's mount right hinge (numbers down) with roller on the bottom section right side. Re-using the 3 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).

6.4) If only 2 sections go to **5.5**, otherwise, 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 the 6 hinges are fully installed.

6.5) Re-using the 2 PK's 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 PK's mount right top bracket with roller on the top of the top section.



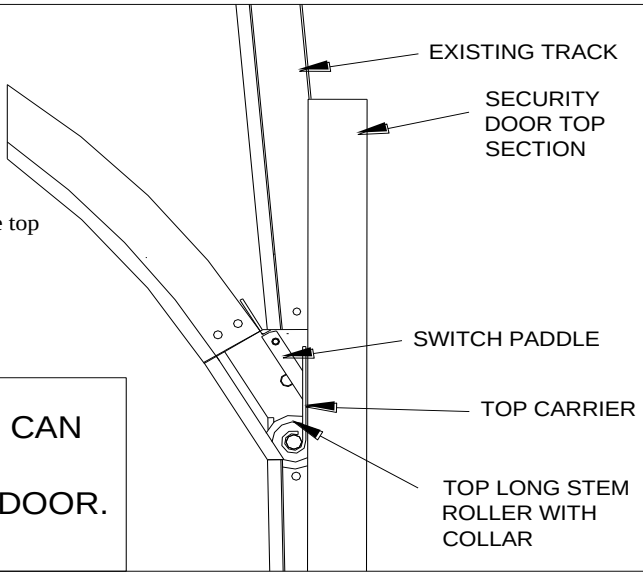
7) **7.1)** Install the top carrier with $\frac{1}{4}$ -20 self-drillers. Use the long stem rollers with collars.

7.2) If you want the door parallel and did the steps in part one, then position and install the top carriers so that the roller is at the bottom of the switch paddle.

7.3) If you did not do part 1 then position and install the top carriers so that the top section leans back.

See TOP CARRIERS WARNING on SAFETY page

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



8) **8.1)** Measure the distance from the torsion shaft to the pulley to the floor and calculate the cable length as follows:

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

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

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

8.3) Cut off excess cable.

9) **9.1)** Install down lock and handle with self-drillers. Lock door.

See SPRINGS WARNING on SAFETY page.

9.2) 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.)

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

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

See BUMPER SPRINGS WARNING on SAFETY page.

9.5) Install pull rope on the Security door.

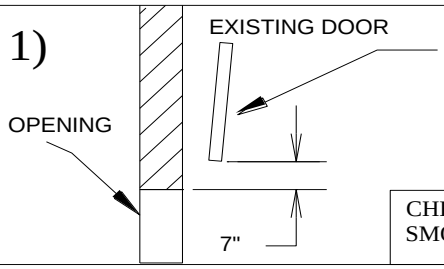
9.6) Check that the door sits level with no interference while moving up. (Readjust drum position if necessary to level door.)

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

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

SECURITY DOOR 2" SWITCH TRACK HIGH LIFT

1)



1.1) If you want the security door to come down parallel with opening then 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) This may also require you to 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)

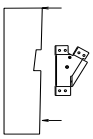
2.1) Measure down 10" from top of opening and cut track.

2.2) Measure up 4-$\frac{1}{2}$" 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.

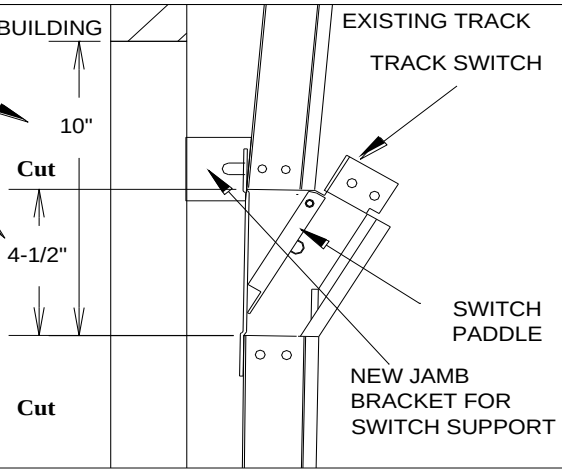
2.4) Angle mounted - Notch out angle for switch. Install track switch with $\frac{1}{4}$" track bolts and nylon stop lock nuts provided.

Angle Mount

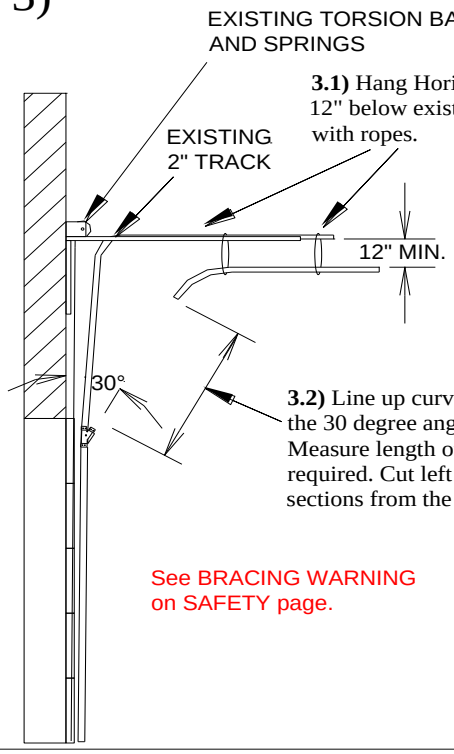


2.5) Check paddle for crisp action.

2.6) To promote smooth roller action through the switch some bending of the track ends may be needed so that curved part of track matches up with switch paddle.



3)



3.1) Hang Horizontal track 12" below existing track with ropes.

3.2) Line up curved end to match the 30 degree angle from switch. Measure length of high lift track required. Cut left and right sections from the track provided.

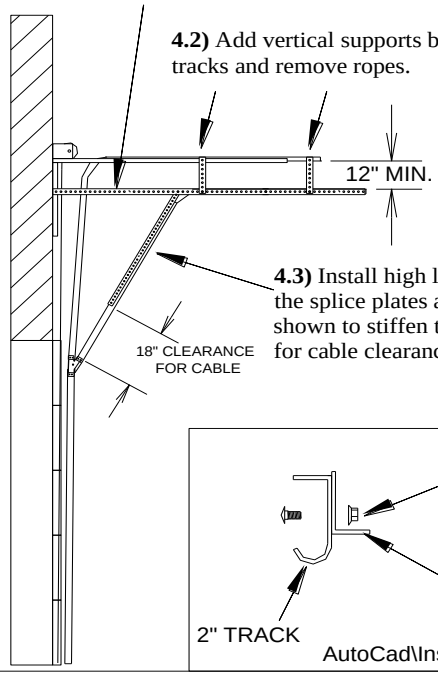
See BRACING WARNING on SAFETY page.

4)

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

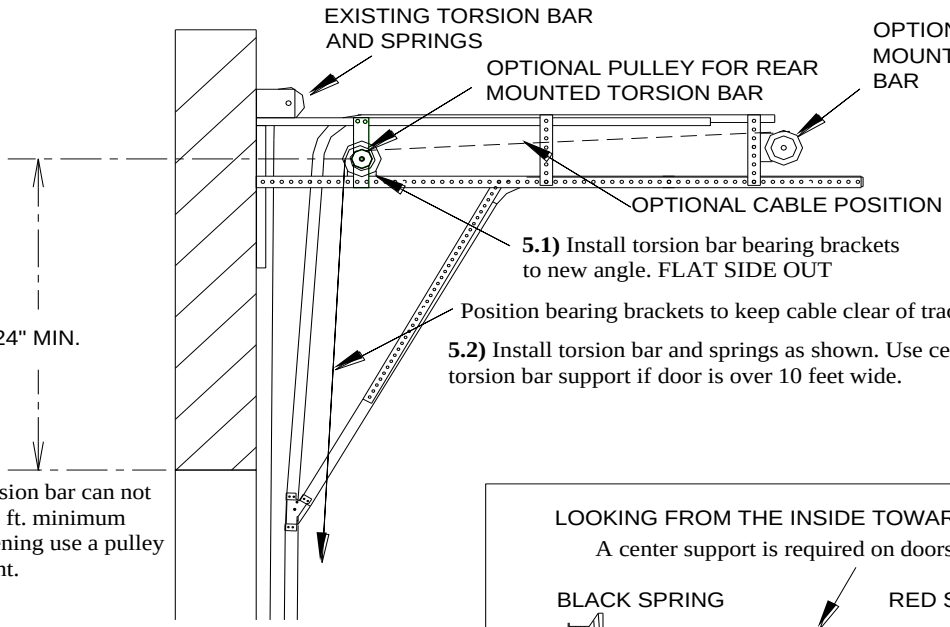
4.1) Install angle from wall back, to brace horizontal track.

4.2) Add vertical supports between tracks and remove ropes.



4.3) Install high lift section with the splice plates and add angle as shown to stiffen track. Leave 18" for cable clearance.

5)



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

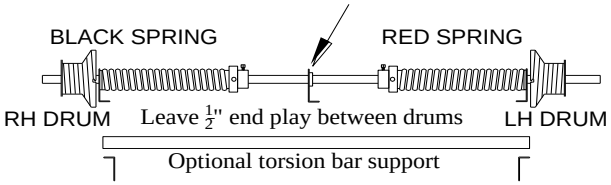
Position bearing brackets to keep cable clear of track and switch.

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

If the new torsion bar can not be mounted 2 ft. minimum above the opening use a pulley and rear mount.

LOOKING FROM THE INSIDE TOWARDS THE DOOR

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



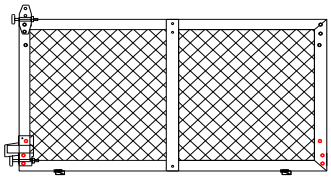
5.3) Install drums on shaft as shown. Leave $\frac{1}{4}$" end play to prevent binding. New cable off front of drum.

6)

6.1) 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 3 red self drillers mount left bottom bracket with roller on the bottom section left side only.

See BOTTOM BRACKET INSTALLATION on SAFETY page

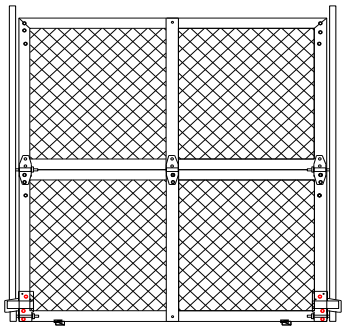
6.1)



6.2) Install section into track.

6.3) 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 1/4-20 self drillers mount center hinge (numbers down).

6.4)



6.4) 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.

7)

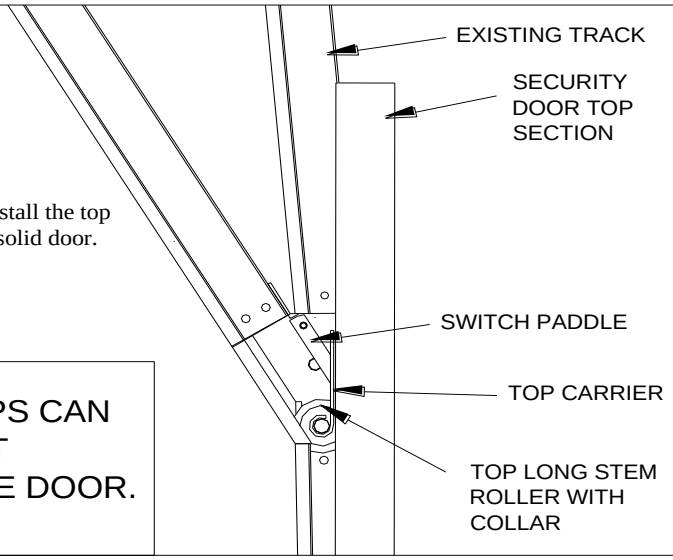
7.1) Install the top carrier with $\frac{1}{4}$-20 self-drillers. Use the long stem rollers with collars.

7.2) If you did 1.1 and 1.2 then position and install the top carriers so that the roller is at the bottom of the switch paddle.

7.3) 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.

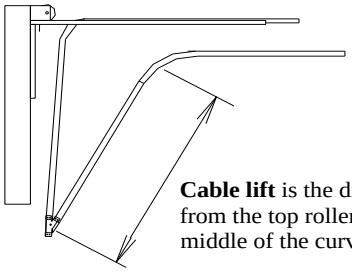


8)

8.1) 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.)

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.



Cable lift is the distance from the top roller to the middle of the curve.

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

8.3) Cut off excess cable.

9)

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

See SPRINGS WARNING on SAFETY page.

9.2) 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.)

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

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

9.5) Install pull rope on the security door.

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

See BUMPER SPRINGS WARNING on SAFETY page.

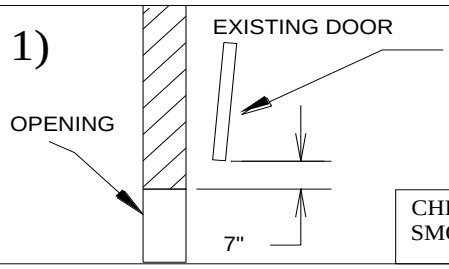
Door may come out of track if bumper spring is not installed.

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

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

SECURITY DOOR 2" SWITCH TRACK VERTICAL LIFT

1)



1.1) If you want the security door to come down parallel with opening then 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) This may also require you to 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.

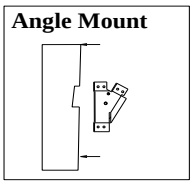
2)

2.1) Measure down 10" from top of opening and cut track.

2.2) Measure up 4-$\frac{1}{2}$" 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.

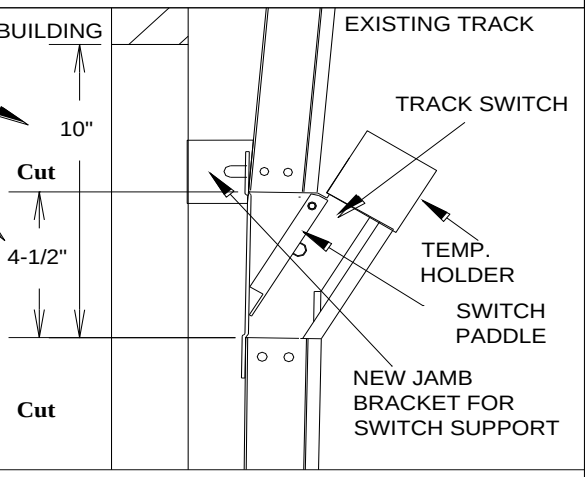
Angle Mount



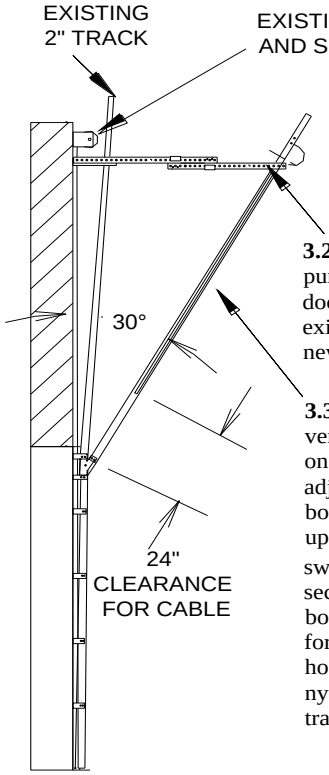
2.4) Angle mounted - Notch out angle for switch. Install track switch with $\frac{1}{4}$" track bolts and nylon stop lock nuts provided.

2.5) Check paddle for crisp action.

2.6) To promote smooth roller action through the switch some bending of the track ends may be needed so that curved part of track matches up with switch paddle.



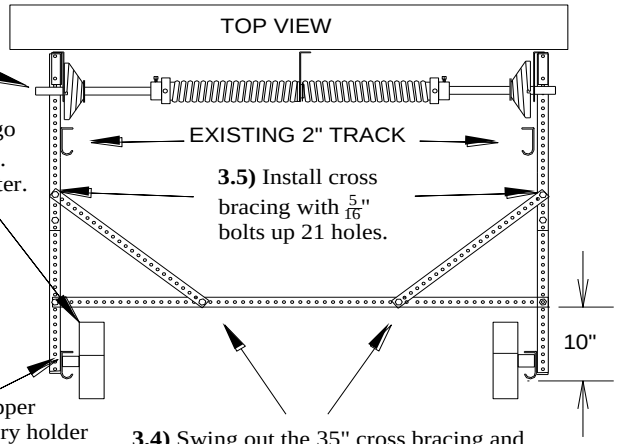
3)



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)

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.



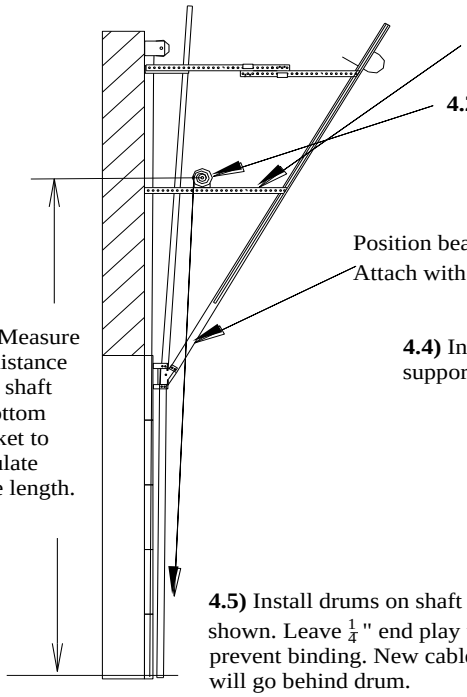
3.5) Install cross bracing with $\frac{5}{16}$" bolts up 21 holes.

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.

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.

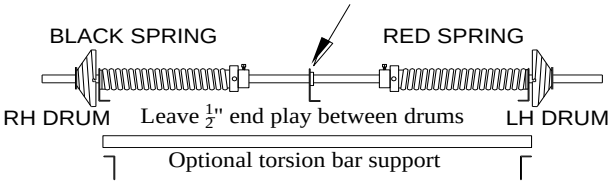
4.3) Measure the distance from shaft to bottom bracket to calculate cable length.

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 3 red self drillers mount left bottom bracket with roller on the bottom section left side only.

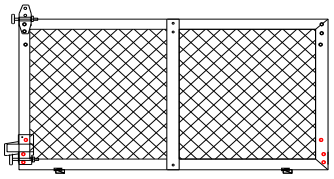
See BOTTOM BRACKET INSTALLATION on SAFETY page

5.2) Install section into track.

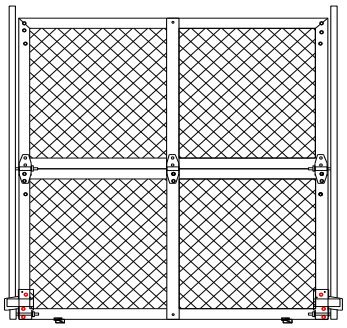
5.3) Re-using the 2 self drillers mount right hinge (numbers down) with roller on the bottom section right side. Re-using the 3 red self drillers mount right bottom bracket with roller on the bottom section right side. Using 1/4-20 self drillers mount center hinge (numbers down).

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.

5.1)



5.4)



6)

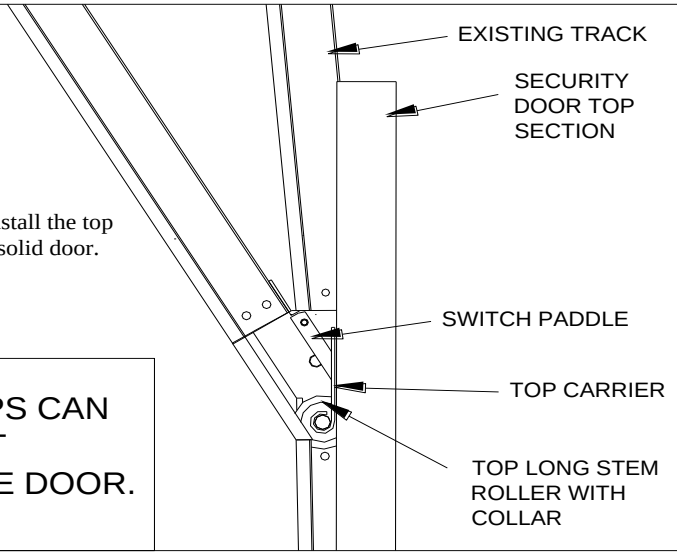
6.1) Install the top carrier with $\frac{1}{4}$-20 self-drillers. Use the long stem rollers with collars.

6.2) If you did 1.1 and 1.2 then position and install the top carriers 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.