

Hatch Rail System Instruction Manual 48x48 Model

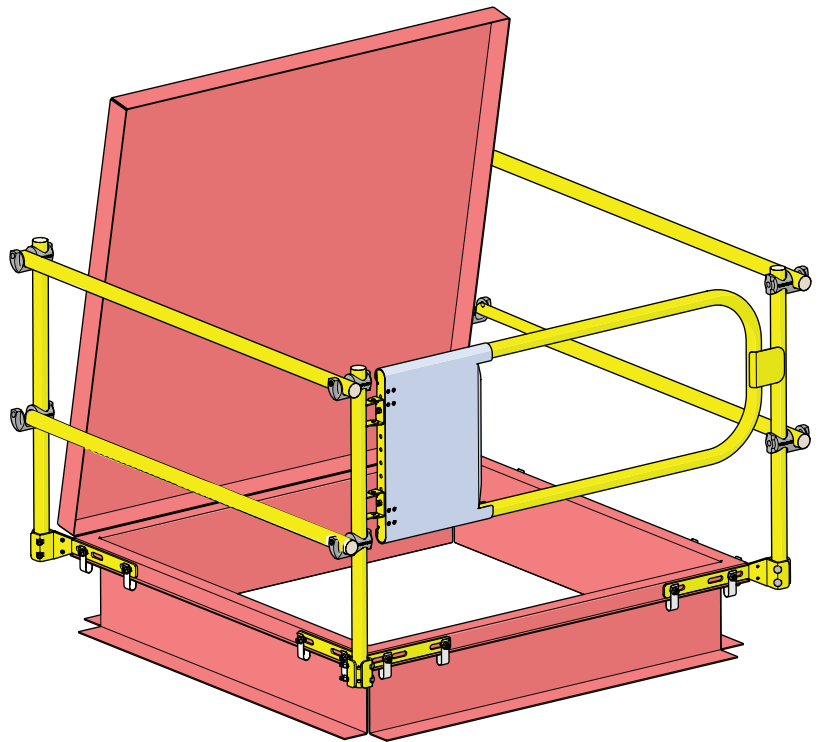
Keep these instructions for future reference.

Read and understand these instructions completely before installing the Tie Down Hatch Rail System. It is the installer's responsibility to follow installation instructions to ensure design performance of the Tie Down Hatch Rail System. The installer could be liable for claims that result from improper installation.

The Tie Down Hatch Rail System is designed to protect open rooftop access hatchways and to provide grab bars for assistance in ascending and descending the hatchway.

Tools Required (Not Included) for Installation:

- Level
- Drill with 1/2" drill bit
- 5/16-inch Hex (Allen) Wrench
- 5/16-inch Hex Drive Socket (to fit torque wrench)
- Torque wrench 5 – 50 ft. lb. range
- Marker or Pencil
- Tape Measure
- Blue (removable) Tread Locking Compound



WARNING: This product can expose you to chemicals including Nickel, which is known to the State of California to cause cancer. For more information go to: www.P65Warnings.ca.gov



Online Manual

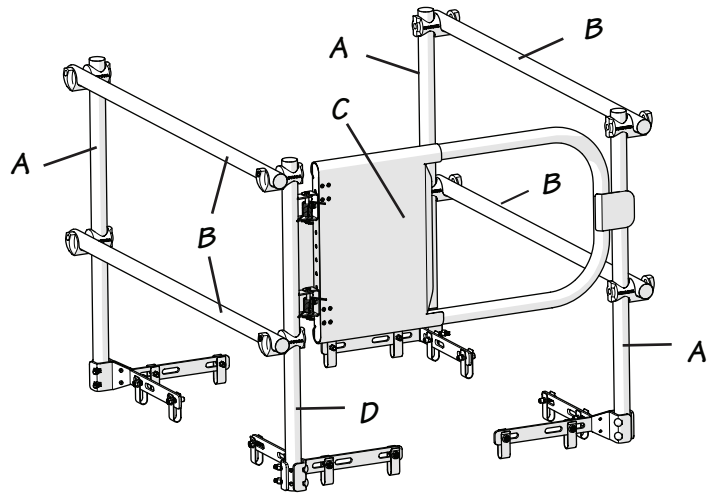
Instruction Sheet #08379
E1838, Rev. 10/12/21

Hatch Rail System

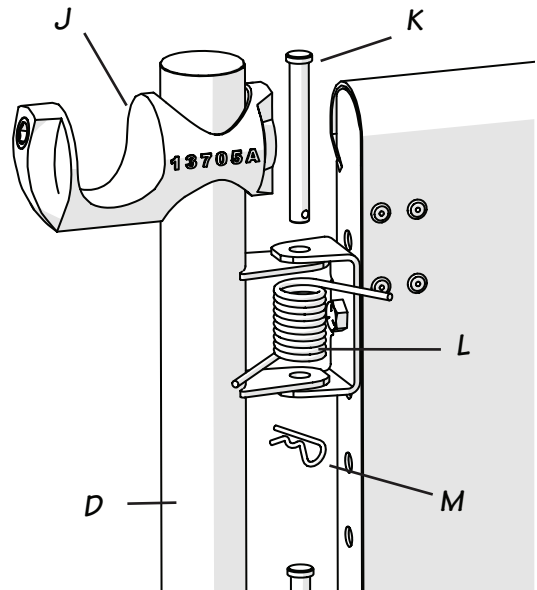
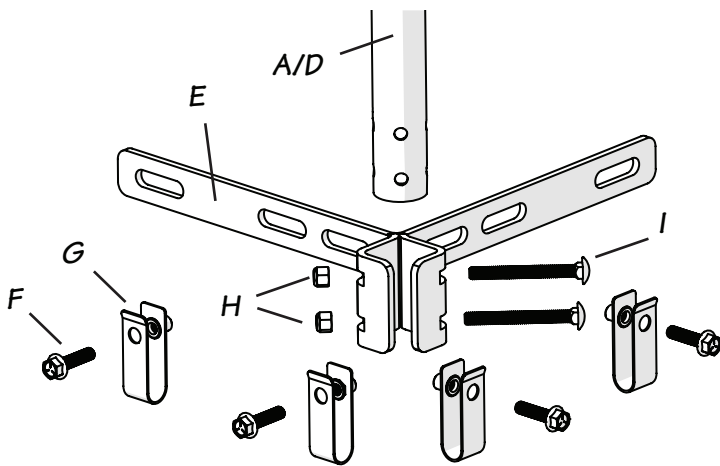
Parts Detail - Box 1 Contents

#	Description (Box 1 Of 2)	Qty.
A	Hatch Rail Post	3
B	Hatch Rails	4
C	Hatch Rail Gate Assembly	1
D	Hatch Rail Swing Gate Post	1

Note: Post and Rails have metal end caps installed.



Parts Detail - Box 2 Contents



#	Description (Box 2 of 2)	Qty.
E	Corner Mounting Bracket	4
F	Hex Bolt (3/8"x1-1/8")	16
G	Threaded Nut Clip	16
H	Nylock Nut (3/8")	8
I	Carriage Bolt (3/8"x 3-1/2")	8
J	Cross Over Bracket	8
K	Swing Gate Pin (3/8"x3-1/4")	2
L	Swing Gate Tension Spring	2
M	Swing Gate Safety Pin	2
*	5/16" Hex Key (not shown)	1

Hatch Rail System

Corner Bracket Installation

Mounting holes are provided on the corners of cap flashing of most roof hatches. If mounting holes do not exist, you will need drill the holes.

NOTE: If the corner mounting brackets needs to be mounted to the hatch curb, please contact our office for bolt kit and installation instructions.

Tools needed for this step:

- Drill with 1/2" drill bit
- Marker
- 3/8" socket wrench

Hardware required for this step:

	Qty.
Corner Mounting Bracket (E)	4
Carriage Bolt (3/8"x1-1/8") (F)	16
Threaded Nut Clip (G)	16

Place the corner mounting bracket in position as show in Fig 3-1. Using the brackets as a drilling template, mark the drill holes. Remove the corner bracket. Drill (4) 1/2" mounting holes in the capflashing. Fig 3-2

(CAUTION: Do not penetrate the roofing material or inner wall of the roof hatch curb when drilling.) Repeat this process on all four roof hatch corners.

Fasten the 4 corner mounting brackets by sliding the threaded nut clips over the mounting bracket and behind capflashing as shown in Fig 3-3. Leave mounting bracket loose to enable plumbing of the vertical post.

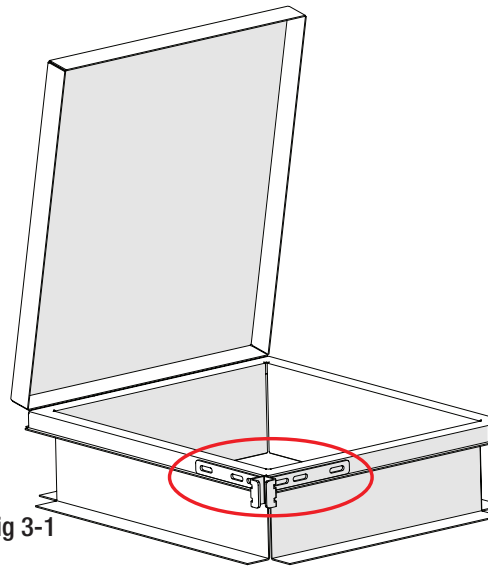


Fig 3-1

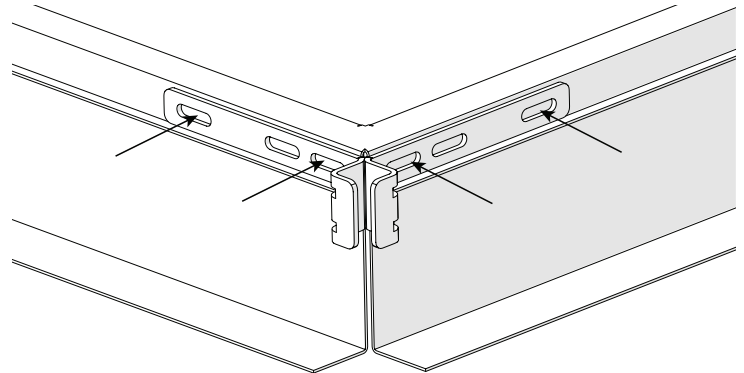


Fig 3-2

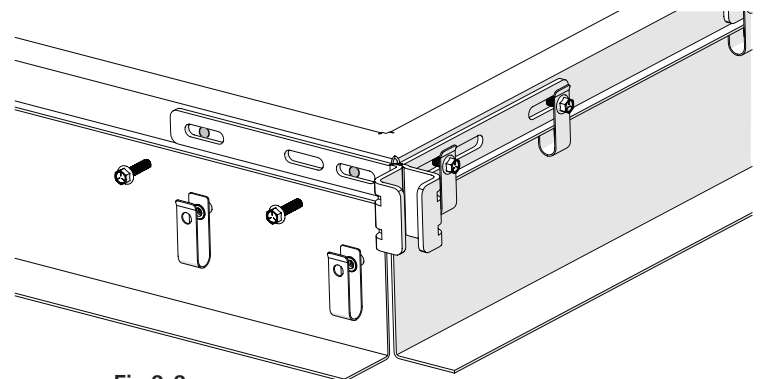


Fig 3-3

Hatch Rail System

Install Hatch Post

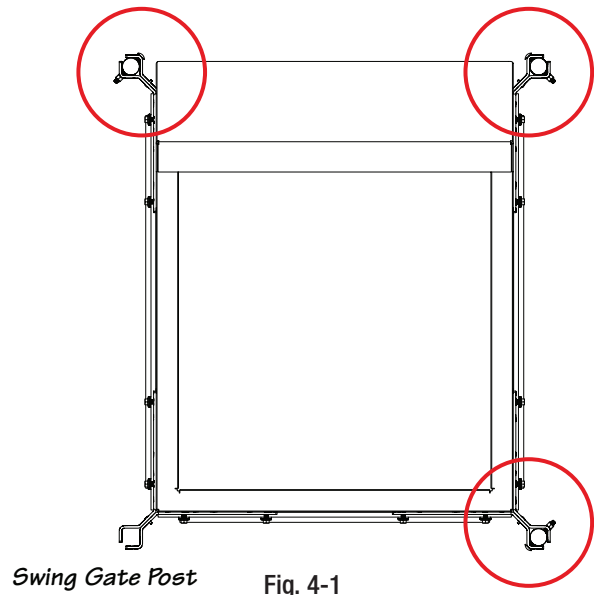
Tools needed for this step:

3/8" socket wrench
Level

Hardware required for this step:

Hatch Rail Vertical Post (A) 3
Nylock Nut (3/8") (H) 6
Carriage Bolt (3/8"x 3-1/2") (I) 6

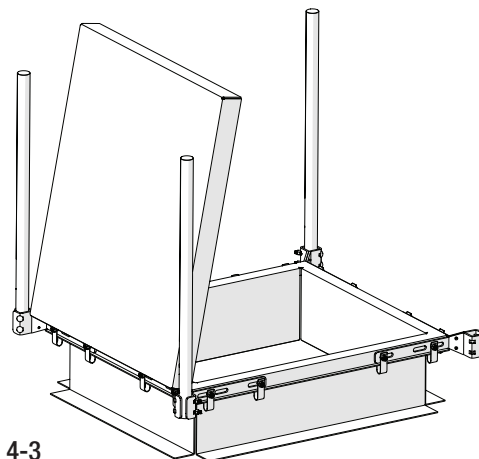
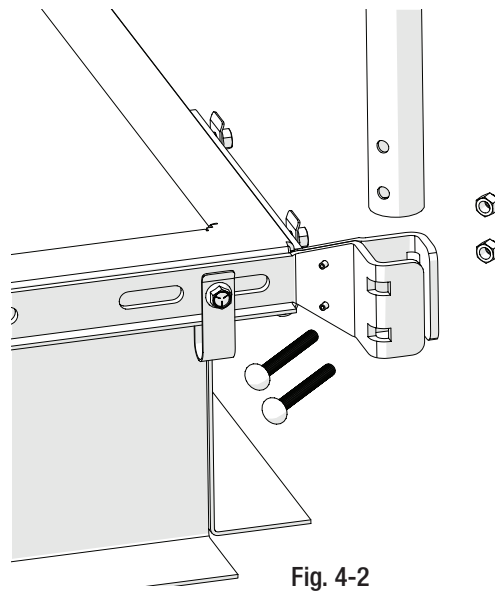
Qty.



Install three post leaving the swing gate post for last for installation.

Slide the carriage bolt through the mounting bracket and hatch post. Secure with nylock nut. Torque nuts to 20 ft lbs. Fig 4-2.

Using a level, plumb the hatch post while tightening the threaded nut clips.



Hatch Rail System

Swing Gate Assembly

Tools needed for this step:

3/8" socket wrench
 Med Phillips screwdriver
 Level

Hardware required for this step:

Hardware	Qty.
Hatch Rail Gate Assembly (C)	1
Swing Gate Pin (3/8"x3-1/4") (K)	2
Swing Gate Tension Spring (L)	2
Swing Gate Safety Pin (M)	2
Hatch Rail Swing Gate Post (D)	1

Lay the Swing Gate Assembly tread brite side face down. See Fig. 5-1.

Position the swing gate post at a 90 degree angle, aligning the gate post holes with swing gate holes. See Fig 5-2.

Hold the tension spring in place between the swing gate hinge tabs. Slide the swing gate pin through the tabs and spring out to the opposite side tab. Secure pin with the safety pin. See Fig. 5-3. Repeat for the second pin/spring mount.

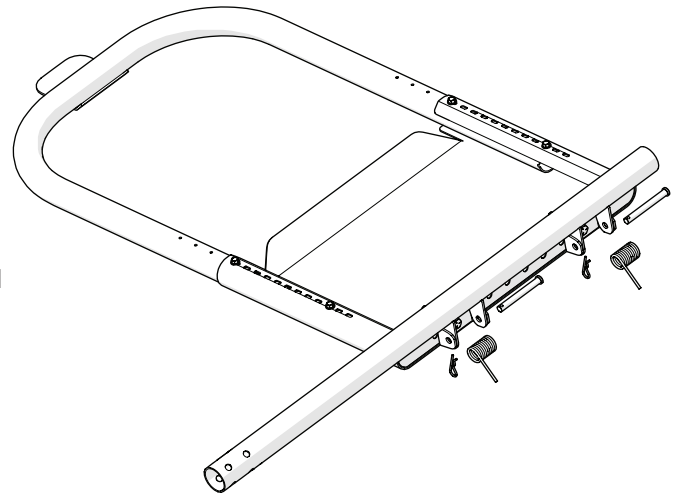


Fig. 5-1

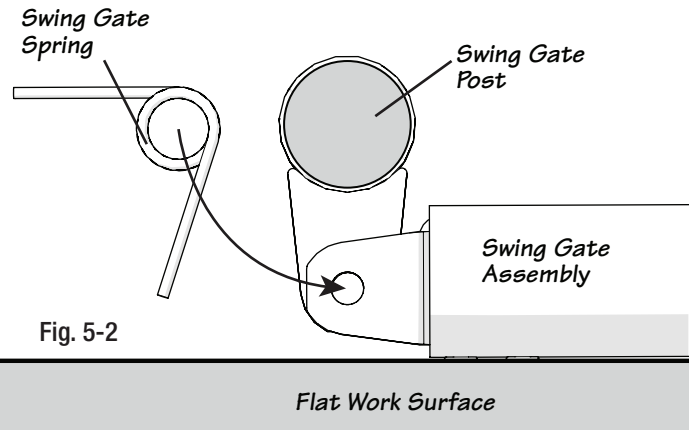


Fig. 5-2

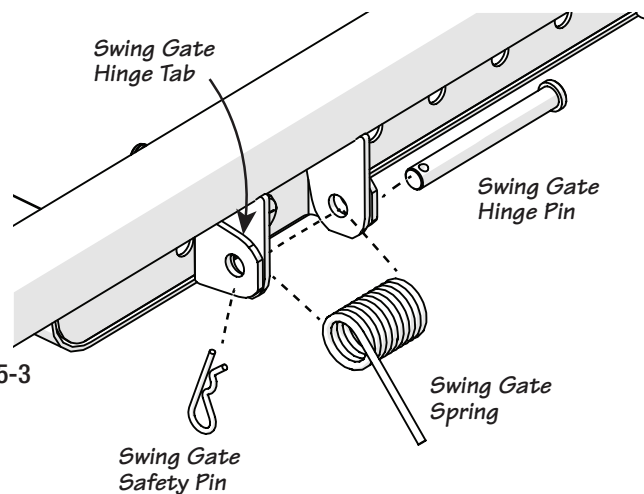


Fig. 5-3

Hatch Rail System

Install the Swing Gate

Tools needed for this step:

3/8" socket wrench
Med Phillips screwdriver
Level

Hardware required for this step:

	Qty.
Nylock Nut (3/8") (H)	2
Carriage Bolt (3/8"x 3-1/2") (I)	2
Hatch Rail Swing Gate/Post (D)	1
Cross Over Bracket	1

Slide cross over bracket from the bottom of the swing gate post. Loosely tighten the cross over bracket nut. See Fig. 6-1

Mount the swing gate/post to the corner mounting bracket shown on page 4 (Fig. 4-2). Using a level, plumb the post while tightening the threaded nut clips.

Adjust the swing gate width by removing the screws on the back of the swing gate. See Fig. 6-2

Slide the gate outward so the gate stop is in contact with the opposite vertical post. Replace the screws in the back of the swing gate. See Fig. 6-3

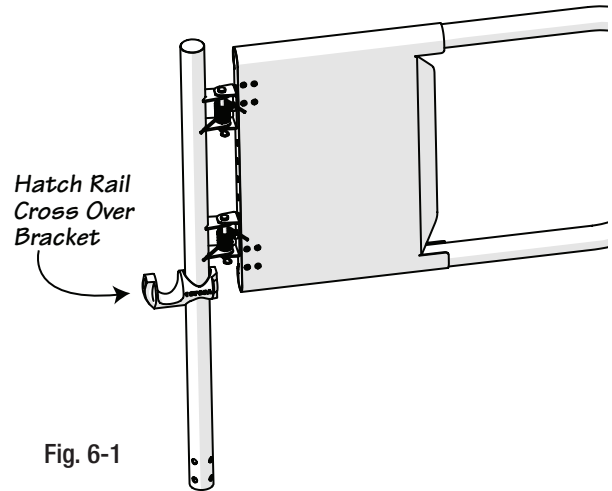


Fig. 6-1

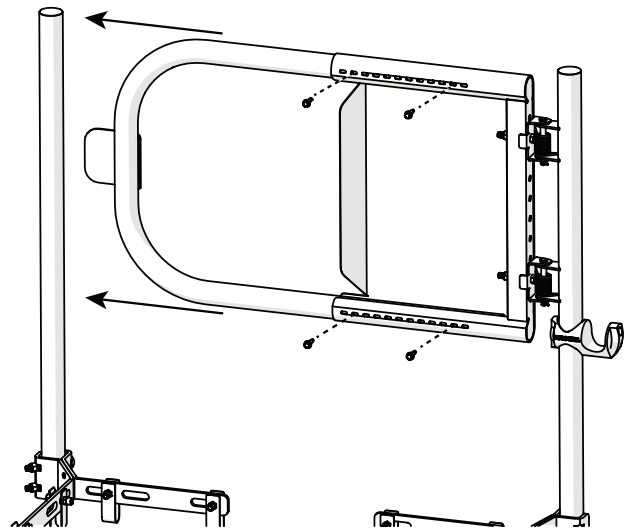


Fig. 6-2

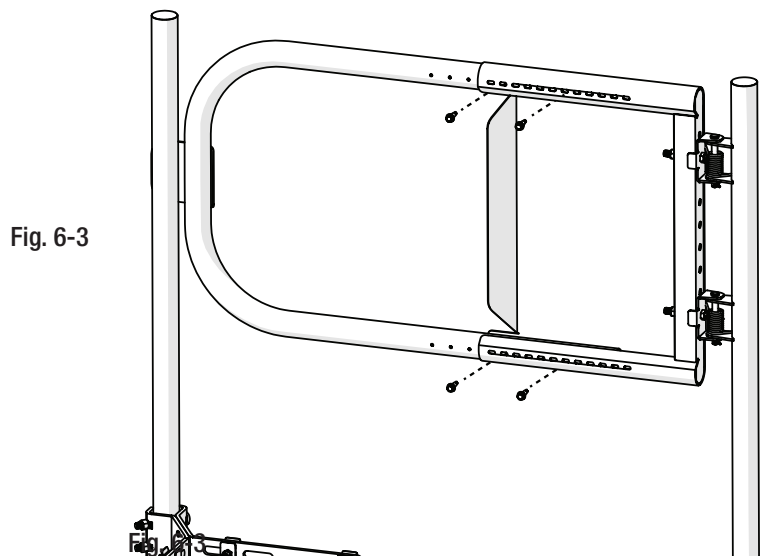


Fig. 6-3

Hatch Rail System

Cross Over Bracket installation

Tools needed for this step:

5/16" Hex Key
Tape Measure

Hardware required for this step:

Cross Over Bracket (J)

Qty.
7

Slide cross over brackets over vertical post as shown in Fig 7-1. The lower cross over bracket should be positioned approximately 20 in. from the bottom of the corner mounting bracket. Lightly tighten the 3/8" nut on the cross over bracket.

The top cross over bracket should be positioned approximately 40 in. from the bottom of the corner mounting bracket. Lightly tighten the 3/8" nut on the cross over bracket.

Repeat the cross over bracket assembly for the remaining vertical posts. Do not tighten brackets.

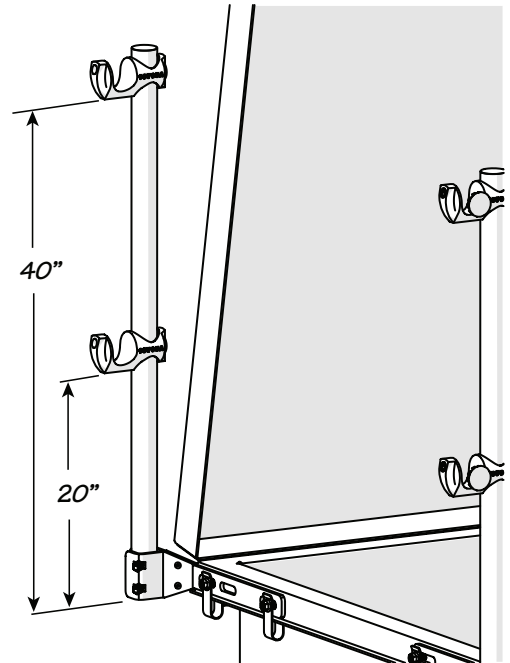


Fig 7-1

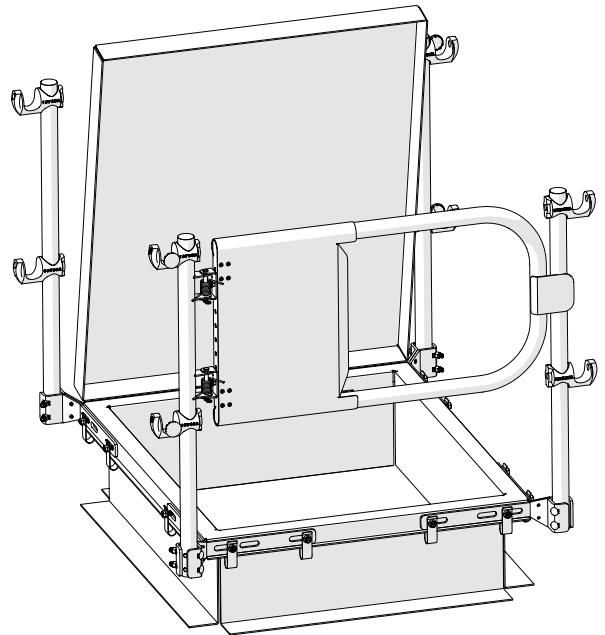


Fig 7-2

Hatch Rail System

Install Horizontal Hatch Rail

Tools needed for this step:

- 5/16" Hex Key
- Level
- Blue (removable) thread locking compound

Hardware required for this step:

Hatch Rail Horizontal Rails (B) Qty. 4

Install horizontal rails as shown in Fig. 8-1

Using a level, level the horizontal rails.

Tighten the 3/8" grub screw for the horizontal rails. See Fig 8-2.

Using your hand, hold the bottom of the cross over bracket with the hatch post. Do not move the bracket.

Loosen the 3/8" grub screw from the hatch post. Apply a layer of blue thread lock compound to the thread on the cross over bracket. Fig 8-3. Tighten the 3/8" nut. Repeat steps for all the cross over brackets.

When installation is complete, visually check that the posts are plumb and the horizontal rails are parallel to each other.

Important

- Re-check every grub screw for tightness
- Check that the swing gate closes to vertical post

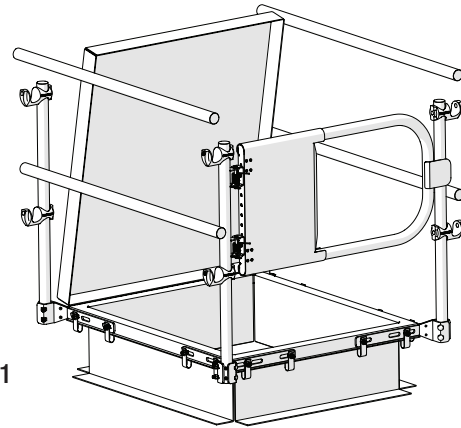


Fig 8-1

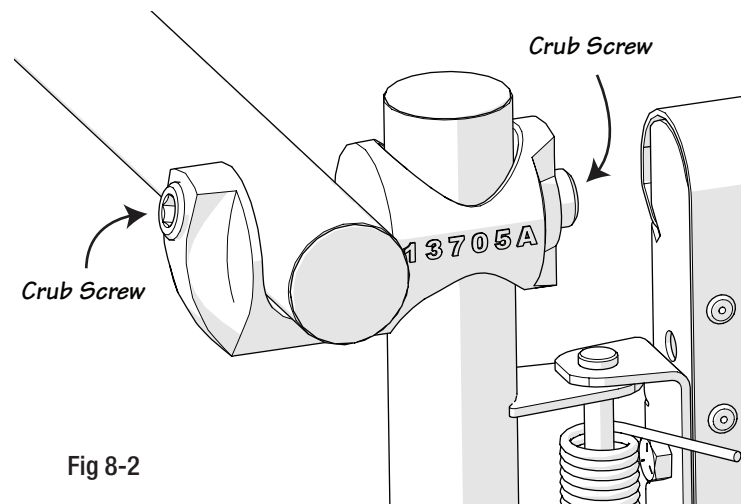


Fig 8-2

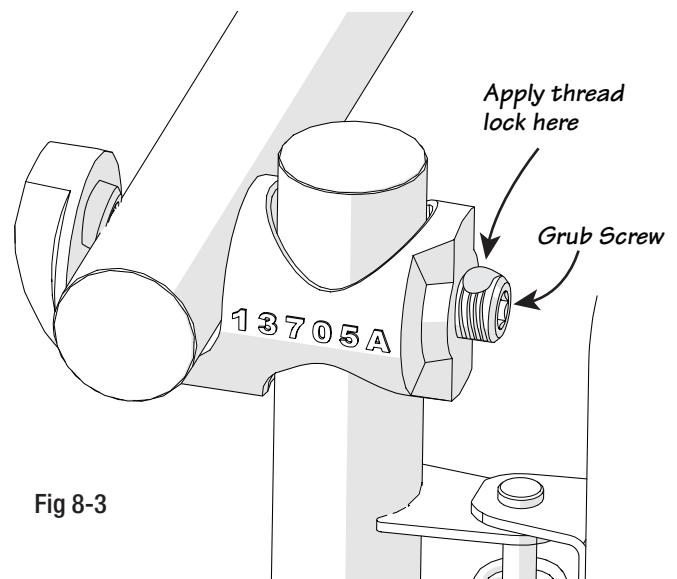


Fig 8-3