

TOP-OF-CAR HANDRAIL

Part No. 18-4XX

INSTALLATION INSTRUCTIONS

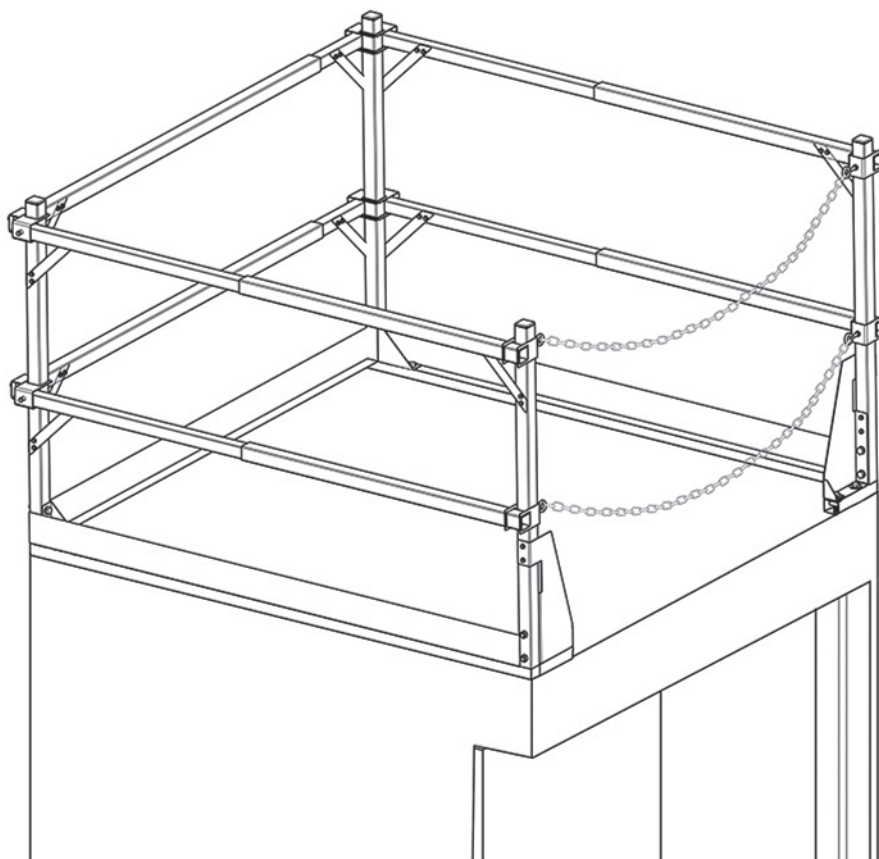


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PRODUCT INFORMATION & SAFETY WARNINGS

PRODUCT WARRANTY & INFORMATION



Scan the QR code to view detailed warranty information at wurtec.com. For questions or product support, contact Wurtec Customer Service at 1-800-837-1066. If a Declaration of Conformity is available for this product, it can be downloaded from its product page on wurtec.com.

EQUIPMENT DESCRIPTION & INTENDED USE

The Wurtec top-of-car handrail features a fully adjustable design with telescopic tubing. It seamlessly adapts to both existing cab configurations and new installations. The handrail is delivered complete with all the necessary assembly hardware and kick plates. Additionally, all materials are galvanized to prevent corrosion.

The 18-4XX Series is designed to mount to a canopy equipped with Uni-Strut channel along each side of the car. This design ensures compatibility with both existing installations and new setups. Furthermore, it adheres to the safety standards outlined in ASME A17.1-2016, Section 2.10.2 and 2.14.1.7.

The 18-4XX-EX Series shares similarities with the 18-4XX Series, but it has been tailored to comply with Ontario Regulation 209/01, specifically as outlined in CAD 277-19 section 3.1. Additionally, the 18-4XX-EX Series offers collapsible and aluminum versions.

The 18-4XX-EX-C Series inherits the advantages of the 18-4XX Series while also featuring collapsible guardrails.

WARNING

FAILURE TO COMPLY WITH THE FOLLOWING GUIDELINES COULD RESULT IN DEATH OR SERIOUS INJURY

EXCLUSION OF LIABILITY

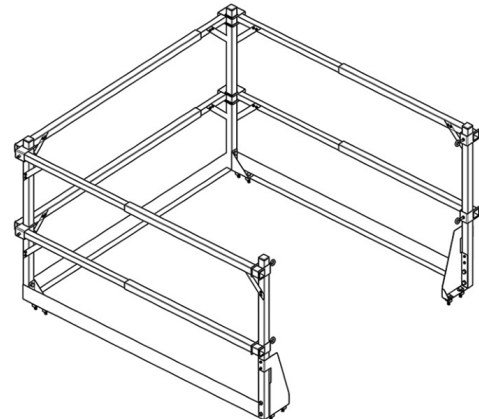
This equipment should only be installed and serviced by trained personnel. This manual is intended as a guide only and is not a substitute for formal training; it may not cover every scenario or condition of use. Wurtec reserves the right to change product design and specifications without notice. Always use standard PPE, including safety glasses, gloves, boots, a hard hat, and fall protection.

- Kick plates should overlap a minimum of 10".
- Vertical posts should be no more than 96" apart.
- When installing front-opening handrails, refer to the configuration page to select the appropriate width and depth.
- When installing front- and rear-opening handrails, disregard the width dimensions.
- For the standard top of the car handrail, ensure all gussets are installed correctly using the enclosed hardware.

SPECIFICATIONS

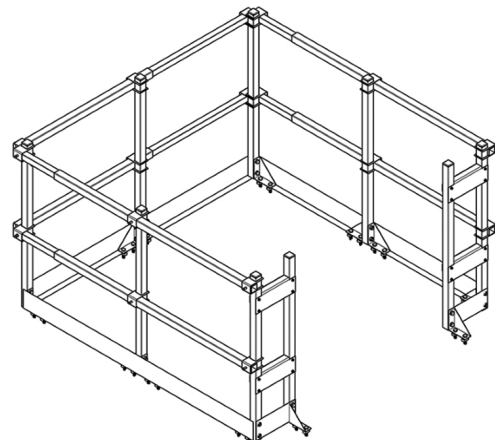
18-4XX & 18-4XX-SCH SERIES

Part No.	Opening	Width (in)	Depth (in)	Weight (lbs)
18-400	Front	66-96	46-70	116
18-400-R	Front	74-120	-	143
18-410	Front	46-70	66-110	139
18-420	Front & Rear	<72	66-110	118
18-430	Front & Rear	<96	46-70	86
18-440	Front	66-96	66-96	134
18-450	Front	66-96	66-110	143

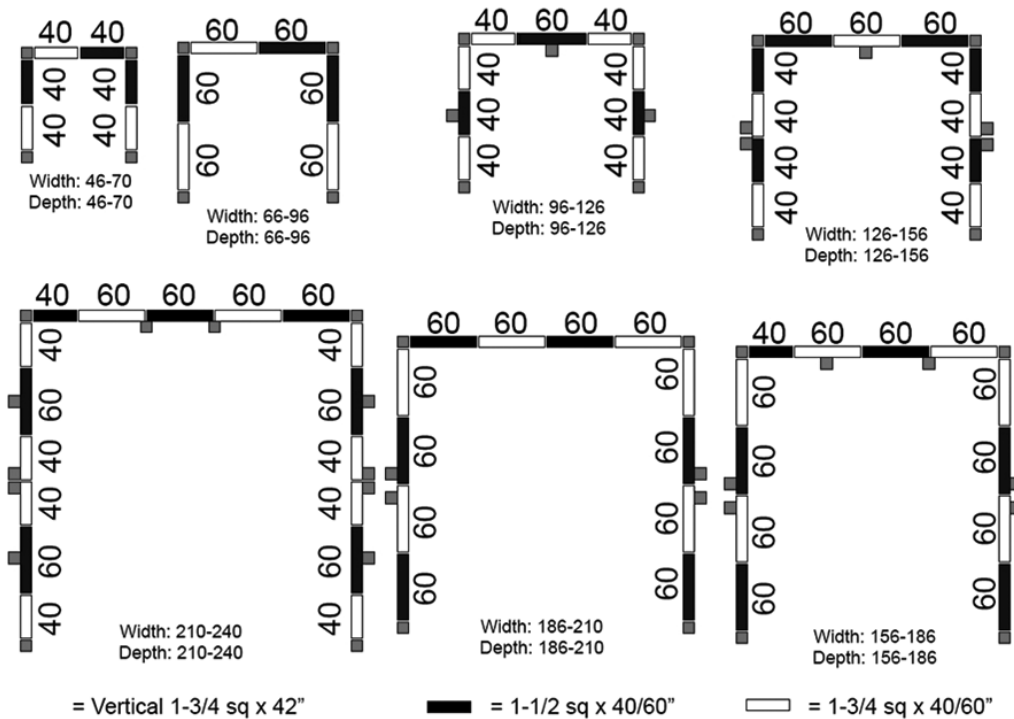


18-4XX-EX SERIES

Part No.	Opening	Width (in)	Depth (in)	Weight (lbs)
18-400-EX	Front	66-100	46-70	168
18-410-EX	Front	46-70	66-110	176
18-420-EX	Front & Rear	<100	66-100	162
18-430-EX	Front & Rear	<100	46-70	145
18-450-EX	Front	66-110	66-110	185



CONFIGURATION



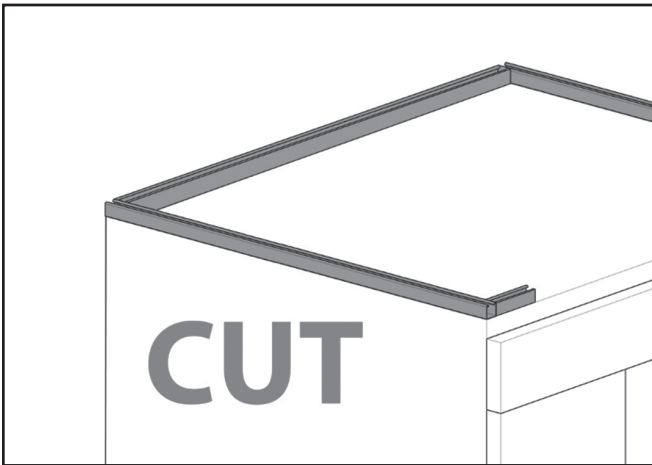
- *NOTE: The black rectangles indicate smaller pieces of handrail that slide into to the larger sections (white rectangles).
- When installing front & rear opening handrails disregard the width dimensions.
- For front opening handrails, choose the required width from the charts then choose the required depth from the chart.

REQUIRED TOOLS

The following are the minimum required tools for installation:

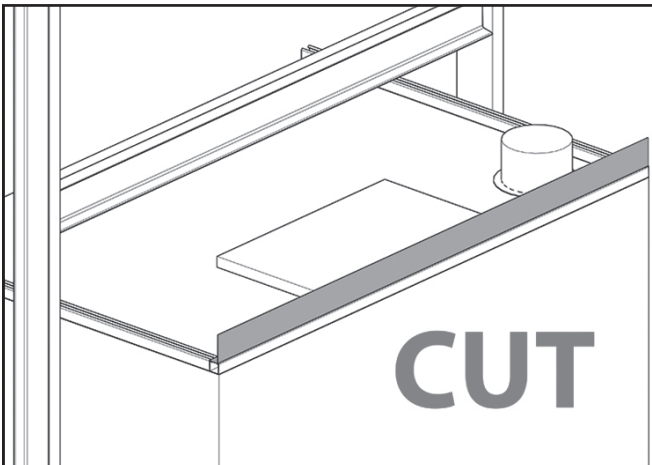
- 3/8" socket (for the 1/4-14 X 3/4" self-drilling screws)
- Adjustable wrench (for the 3/8-16 X 1" square head set screws)
- (2) 3/4" sockets or wrenches (for the 1/2-13 X 1" hex head cap screws)
- Ratchet wrench
- Impact drill
- Tin snips

INSTALLATION



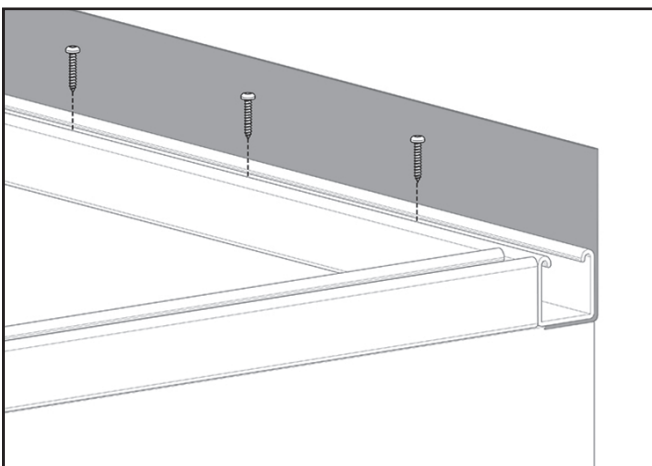
Step 1: Cutting the Unistrut

- Measure and cut Unistrut sections to match the top dimensions of the cab.
- *NOTE: When measuring and cutting, be sure to include smaller pieces for the front gussets.
- *NOTE: Unistrut not included



Step 2: Cutting the Kick Plates

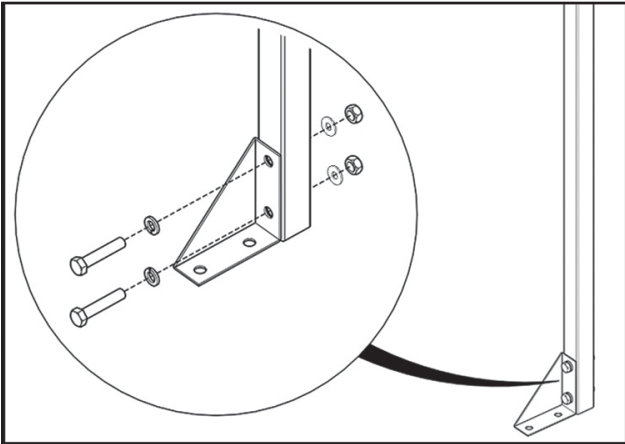
- Measure and trim Kickplates to match the cab's top dimension.
- *NOTE: Kickplates should overlap by a minimum of 10".



Step 3: Securing Unistrut and Kickplates

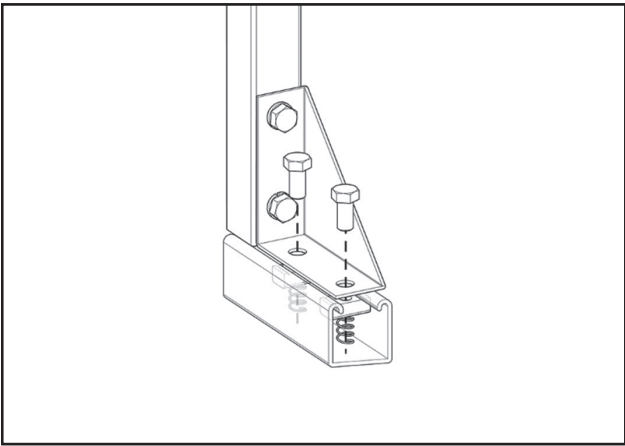
- Place the lip of the Kickplate beneath the section of Unistrut, then bend upright (as shown).
- Secure both to the top of the cab with sheet metal screws.
- Repeat to secure remaining sections of Unistrut.

INSTALLATION



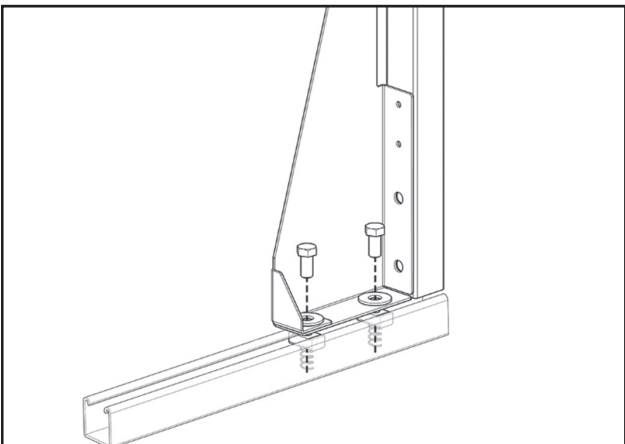
Step 4: Attaching Mounting Brackets to Posts

- Attach the gusset mounting brackets to the vertical posts using the 1/2-13 x 2-1/2" hex head cap screws, lock washers, and nuts.
- Tighten to secure.



Step 5: Attaching the Posts

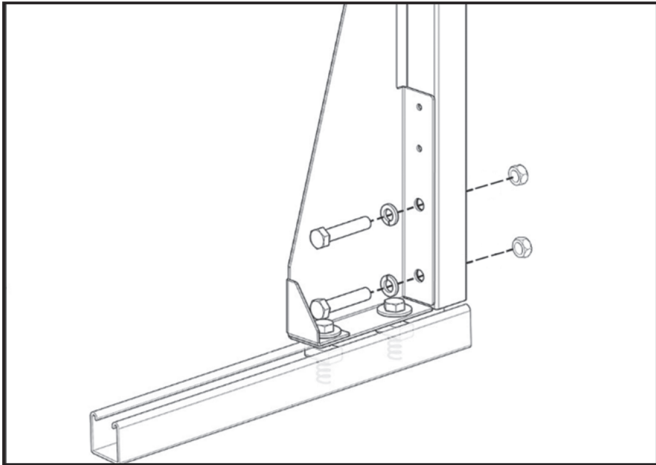
- *NOTE: Vertical Posts should be no more than 96" apart.
- Slide two spring nuts into the unistrut channel.
- Position the vertical posts over the unistrut.
- Insert the 1", 3/8-16 set screws. Hand tighten the jam nut to secure in place.
- *NOTE: Do not fully tighten jam nut at this point.
- Repeat these steps until all four posts are secured.



Step 6: Attaching the Front Gussets to Unistrut

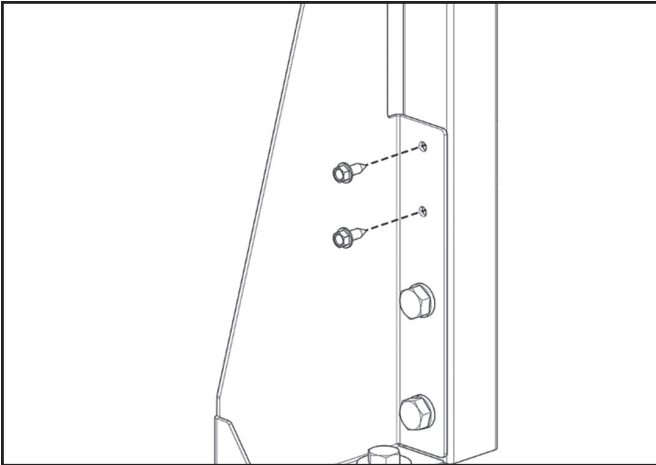
- *NOTE: If your handrail kit does not include the updated gussets, follow the instructions in Step 4 to attach the front posts of the handrail.
- Slide two spring nuts into the unistrut channel.
- Position the gussets over the unistrut, ensuring that the bracket wraps around the post.
- Insert the flat washers and hex head screws through the holes to fasten the bracket securely to the spring nuts.
- Repeat these steps until both front gussets are secured to the unistrut.
- *NOTE: Unistrut not included

INSTALLATION



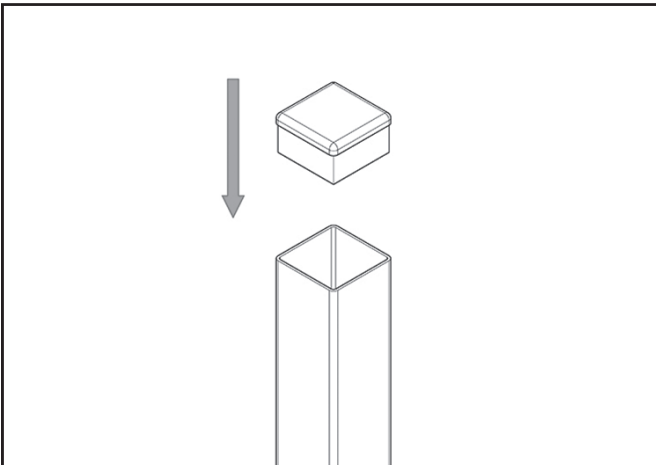
Step 7: Attaching the Front Gussets to Post

- *NOTE: If the kickplate obscures the bracket holes, drill a hole for the 1/2-13 hex head bolt.
- Insert the flat washers and hex head screws through the holes in the brackets and post.
- Secure in place using jam nuts.
- Repeat these steps until both front gussets are secured to the front posts.



Step 8: Adding the Self Drilling Screws

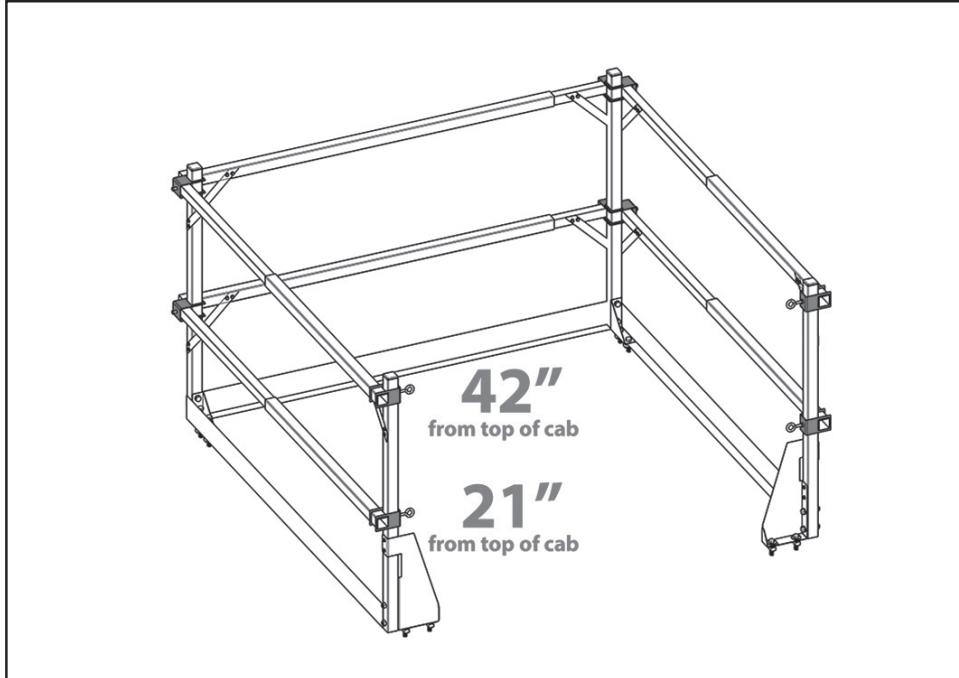
- Mark the locations for the self drilling screws on the inside of the bracket and the outside. For easier installation, pre-drill holes.
- Drive the self-drilling screws through the bracket and into the post.
- Install both sets of self-drilling screws on each bracket to ensure secure reinforcement.



Step 9: Adding the Post Caps

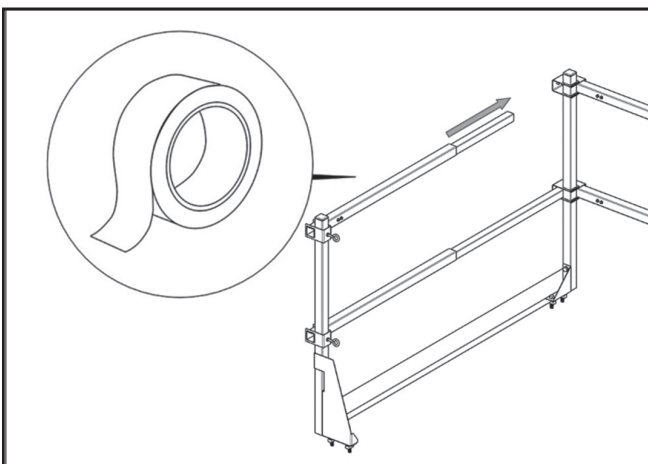
- Add the caps to the tops of each vertical post.

INSTALLATION



Step 10: Adding the U-Brackets

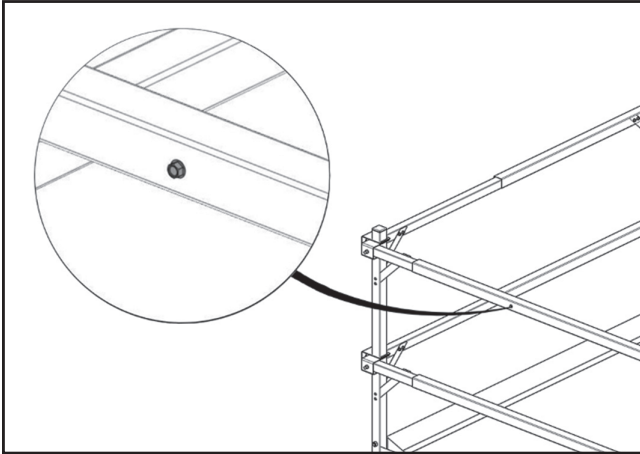
- *NOTE: The number of U-Brackets used in this step varies depending on model purchased.
- Insert 3/8-16 x 1" set screws with jam nut in each U-bracket, but do not fully tighten.
- *NOTE: Use Eye Bolts instead of jam nuts to secure the U-Brackets near the car opening. These will be used to mount a chain across the opening.
- For the rear posts: Place two U-Brackets on top of each other, so the square holes align. Orient the bracket so the open part of the U is facing towards the cab, then slide the brackets onto the vertical post. Hand tighten the set screws to hold the brackets in place.
- For front and middle posts: Orient a single U-Bracket so the open part of the U is facing away from the cab. Slide the bracket onto the vertical post. Hand tighten the set screws to hold the brackets in place.
- Each vertical post should have upper and lower set of bracket(s) as shown in the pictures.
- *NOTE: The lower U-Brackets should be approximately 21" from the top of the cab. The upper U-Brackets should be approximately 42" from the top of the cab.



Step 11: Connecting Telescopic Tubing

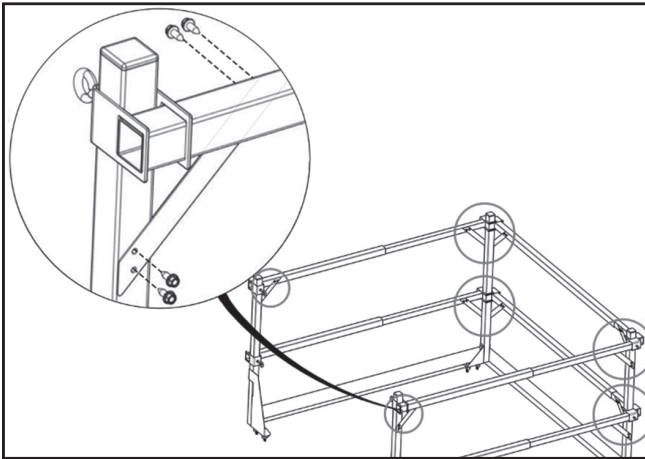
- Slide the Telescopic Tubing through the U-Brackets, and adjust the tubing to the correct length.
- Make any adjustments to the U-Brackets as needed, then fully tighten the set screws on the U-Brackets.
- Repeat until all handrails are secured.
- Once all tubing is in place, wrap the top rails in yellow/black safety tape (not included).

INSTALLATION



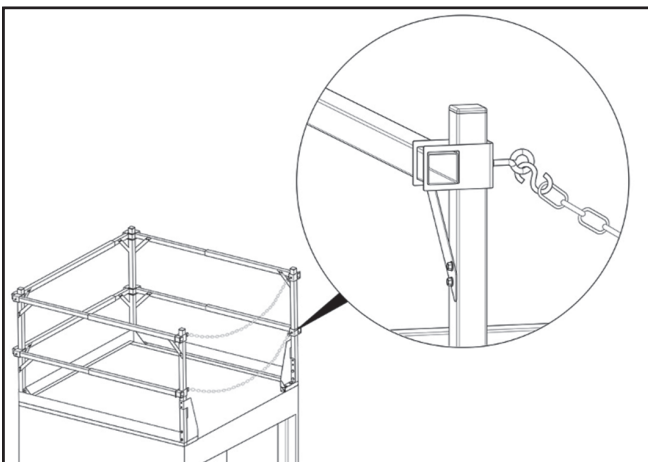
Step 12: Securing the Telescopic Tubing

- To fasten the Telescopic Tubing, use the supplied self-drilling screws. Ensure that the screw passes through both sections of tubing.
- Repeat until all sections of the tubing have been secured.



Step 13: Attaching the Straight Gussets

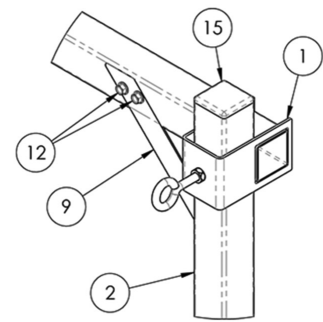
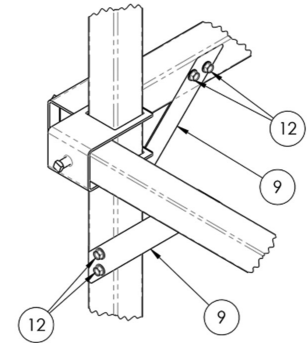
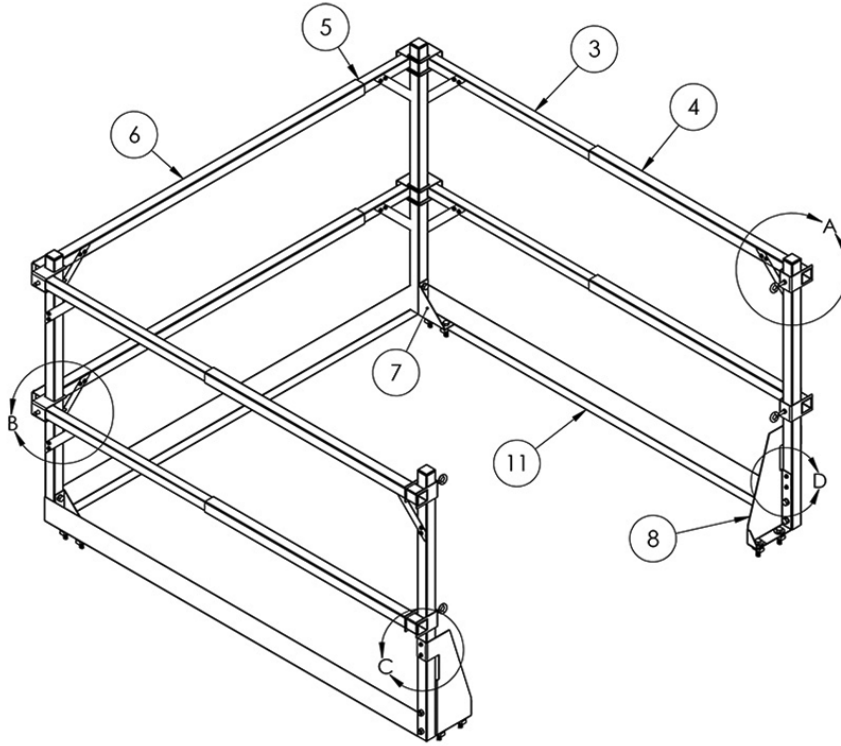
- *NOTE: Straight gussets must be installed at each corner of both handrails, except on the front handrails, where only the top rail requires straight gussets.
- Position the straight gusset with one end against the inside of the post and the other end on the outside.
- Mark the locations for the self-drilling screws on the gusset. For easier installation, pre-drill 1/4-14 holes.
- Drive the self-drilling screws through both the gusset and post to reinforce the handrail.
- Repeat these steps to assemble the remaining mounting brackets.



Step 14: Installing the Chain Kit

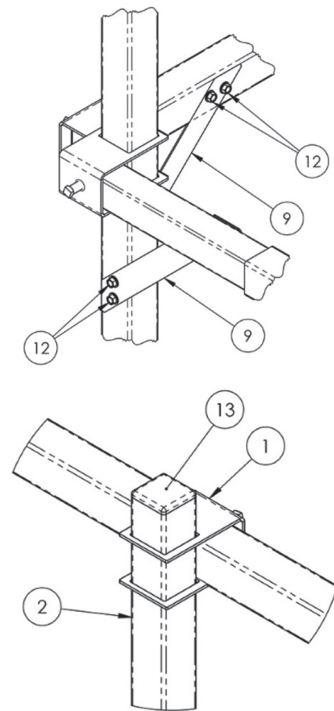
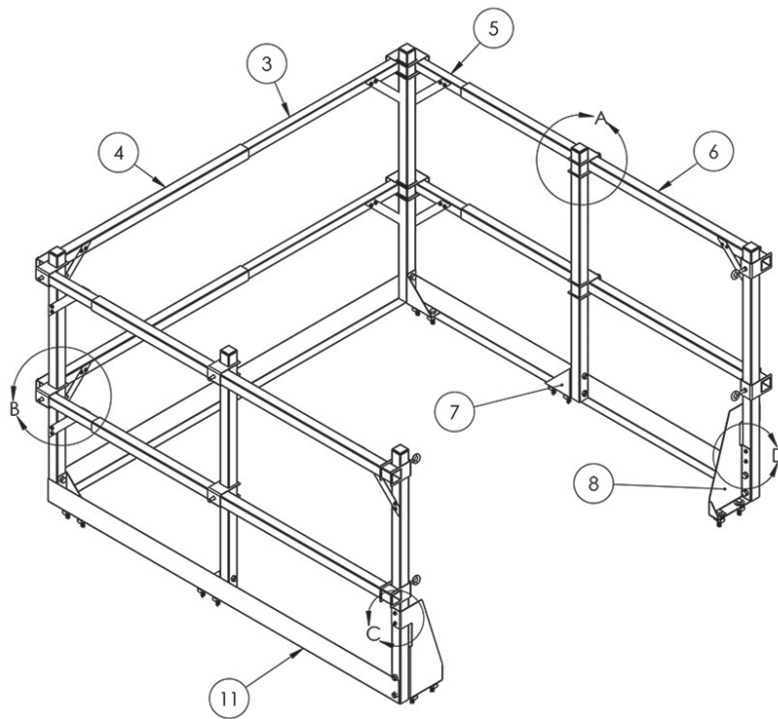
- On the front brackets, connect an S-Hook onto the Eye Bolt.
- Connect the Chain to the S-Hook, then connect the other end to the opposite Bracket.
- Repeat so both chains are connected and cover the car opening(s).

BILL OF MATERIALS - 18-400



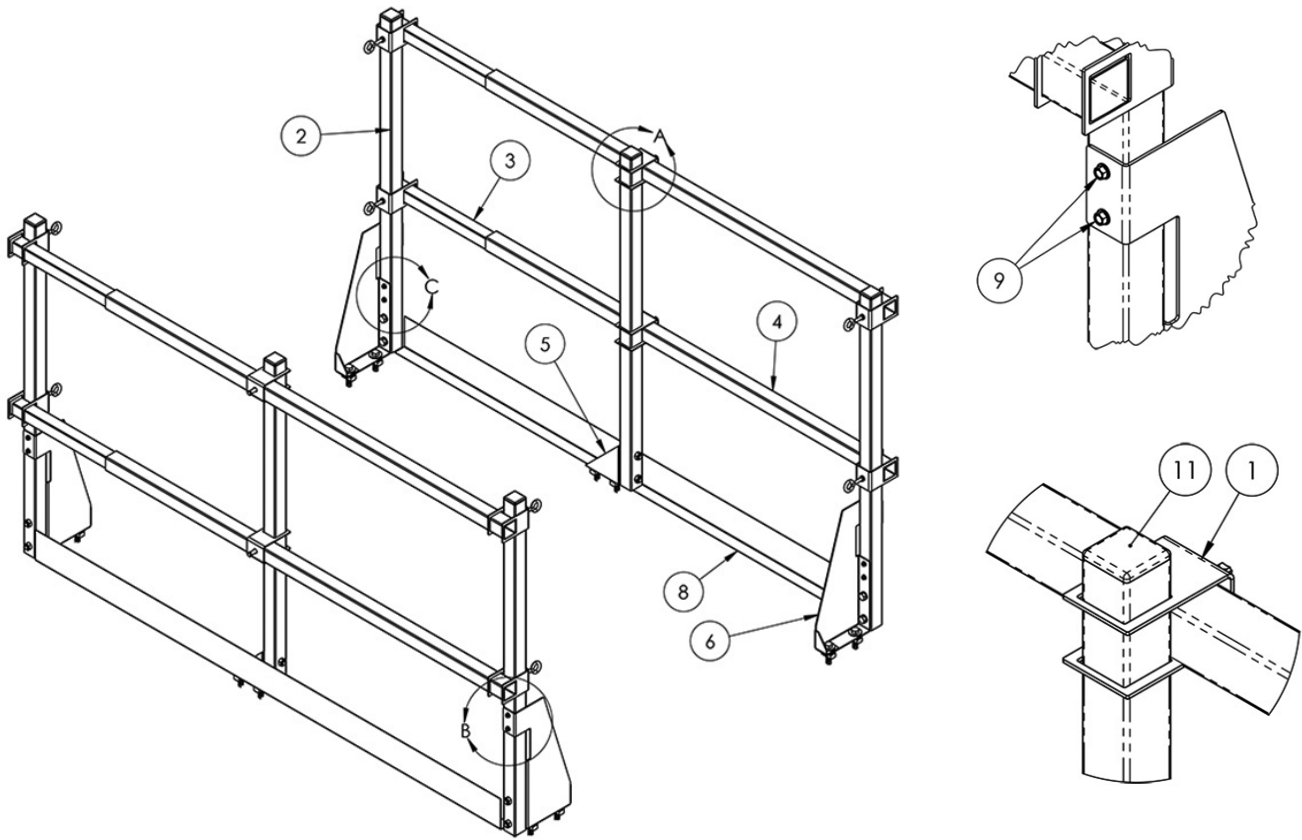
Item	Qty	Part No.	Description	Size	Length
1	12	18-400-01	HANDRAIL CLAMP	-	-
2	4	18-400-03	HANDRAIL POST	-	-
3	4	18-400-06	1 1/2" SQ X .06W X 40" LONG	-	-
4	4	18-400-07	HANDRAIL	-	-
5	2	18-400-08	HANDRAIL	-	-
6	2	18-400-09	HANDRAIL	-	-
7	2	18-400-10	GUSSET MOUNTING BRACKET	-	-
8	2	20-10085862	TOCH OPENING GUSSET		
9	10	20-10085732	TOCH STRAIGHT SIDE GUSSET		
10	1	INSTRUCTIONS_18-4XX	INSTALLATION INSTRUCTIONS	-	-
11	3	18-405-04-70	KICKPLATE, GALVANIZED X 70" LG	-	-
12	60	31822	1/4-14 X 3/4 SELF-DRILLING SCREW ZINC	-	-
13	1	CHAIN KIT-100	CHAIN KIT, HANDRAIL	-	-
14	1	10034079	TOCH HARDWARE KIT	-	-
15	4	STI 1 3/4"	CAPS, TUBE, SQUARE	1 3/4"	-

BILL OF MATERIALS - 18-410



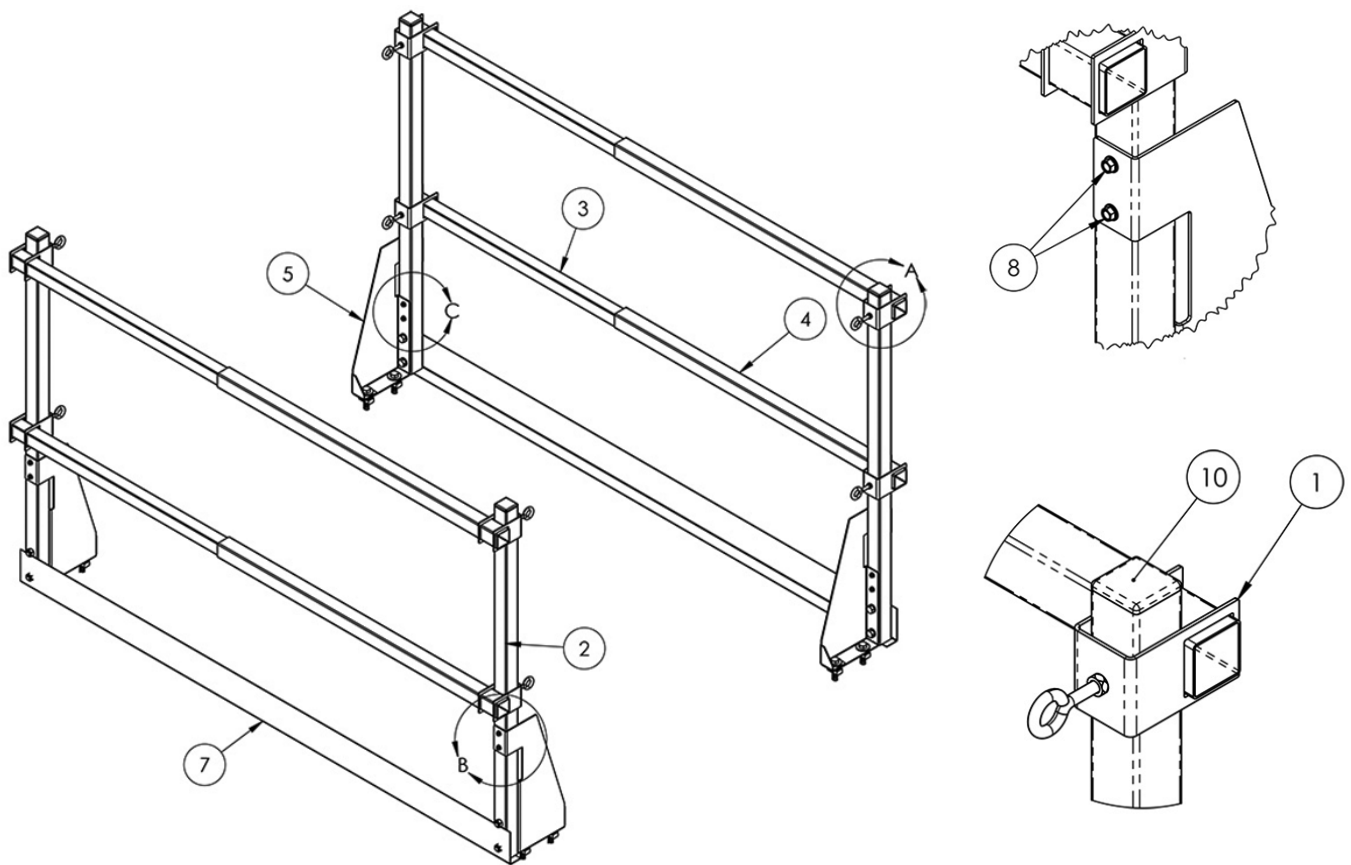
Item	Qty	Part No.	Description	Size	Length
1	16	18-400-01	HANDRAIL CLAMP	-	-
2	6	18-400-03	HANDRAIL POST	-	-
3	2	18-400-06	1 1/2" SQ X .06W X 40" LONG	-	-
4	2	18-400-07	HANDRAIL	-	-
5	4	18-400-08	HANDRAIL	-	-
6	4	18-400-09	HANDRAIL	-	-
7	4	18-400-10	GUSSET MOUNTING BRACKET	-	-
8	2	20-10085862	TOCH OPENING GUSSET	-	-
9	10	20-10085732	TOCH STRAIGHT SIDE GUSSET	-	-
10	1	INSTRUCTIONS_18-4XX	INSTALLATION INSTRUCTIONS	-	-
11	3	18-405-04-70	KICKPLATE, GALVANIZED X 70" LG	-	-
12	60	31822	1/4-14 X 3/4 SELF-DRILLING SCREW ZINC	-	-
13	6	ST1 1 3/4	CAPS, TUBE, SQUARE	1 3/4"	-
14	1	10034081	TOCH HARDWARE KIT	-	-
15	2	CHAIN KIT-76	CHAIN KIT, HANDRAIL	-	-

BILL OF MATERIALS - 18-420



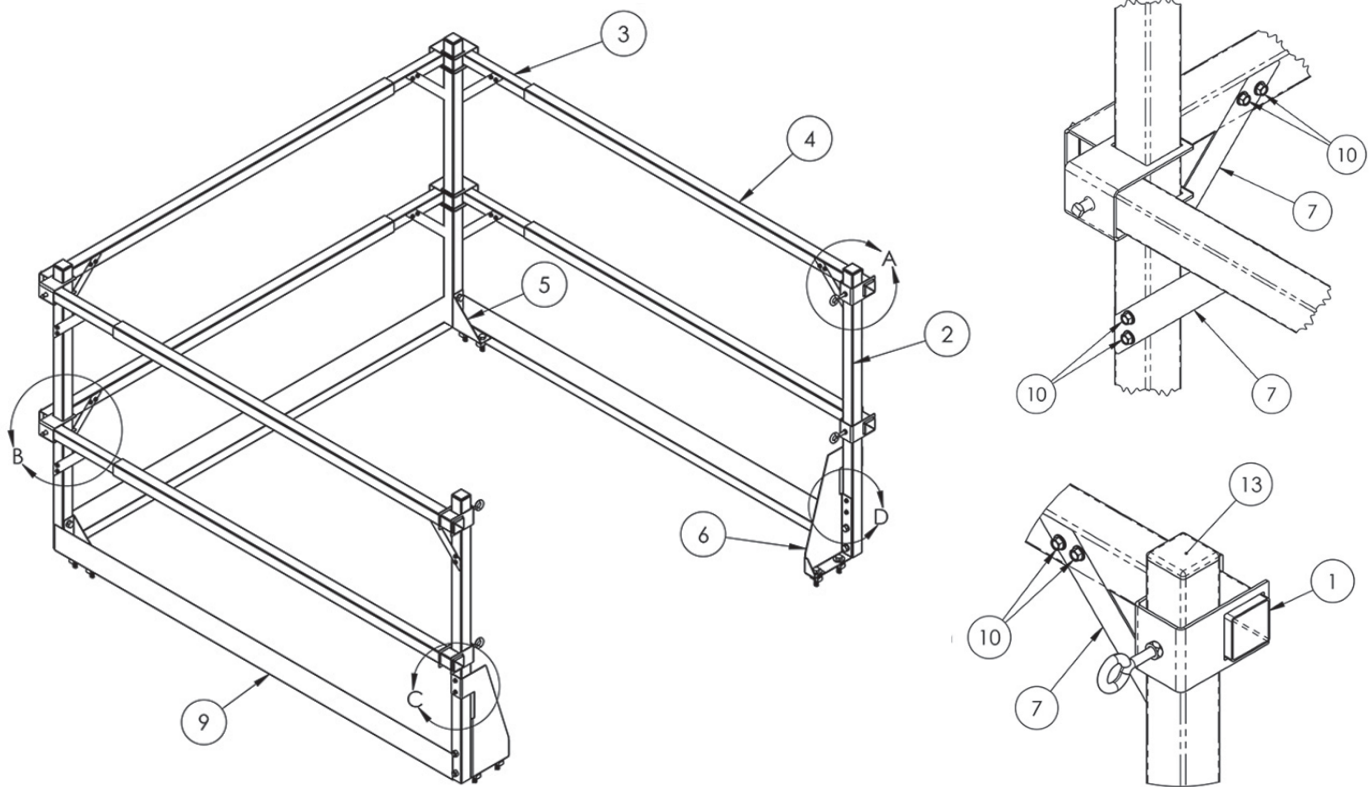
Item	Qty 18-420	Part No.	Description	Size	Length
1	12	18-400-01	HANDRAIL CLAMP	-	-
2	6	18-400-03	HANDRAIL POST	-	-
3	4	18-400-08	HANDRAIL	-	-
4	4	18-400-09	HANDRAIL	-	-
5	2	18-400-10	GUSSET MOUNTING BRACKET	-	-
6	4	20-10085862	TOCH OPENING GUSSET	-	-
7	1	INSTRUCTIONS_18-4XX	INSTALLATION INSTRUCTIONS	-	-
8	2	18-405-04-70	KICKPLATE, GALVANIZED X 70" LG	-	-
9	24	31822	1/4-14 X 3/4 SELF-DRILLING SCREW ZINC	-	-
10	1	10034084	TOCH HARDWARE KIT	-	-
11	6	STI 1 3/4	CAPS, TUBE, HANDRAIL	1 3/4"	-
12	2	CHAIN KIT-100	CHAIN KIT, HANDRAIL	-	-

BILL OF MATERIALS - 18-430



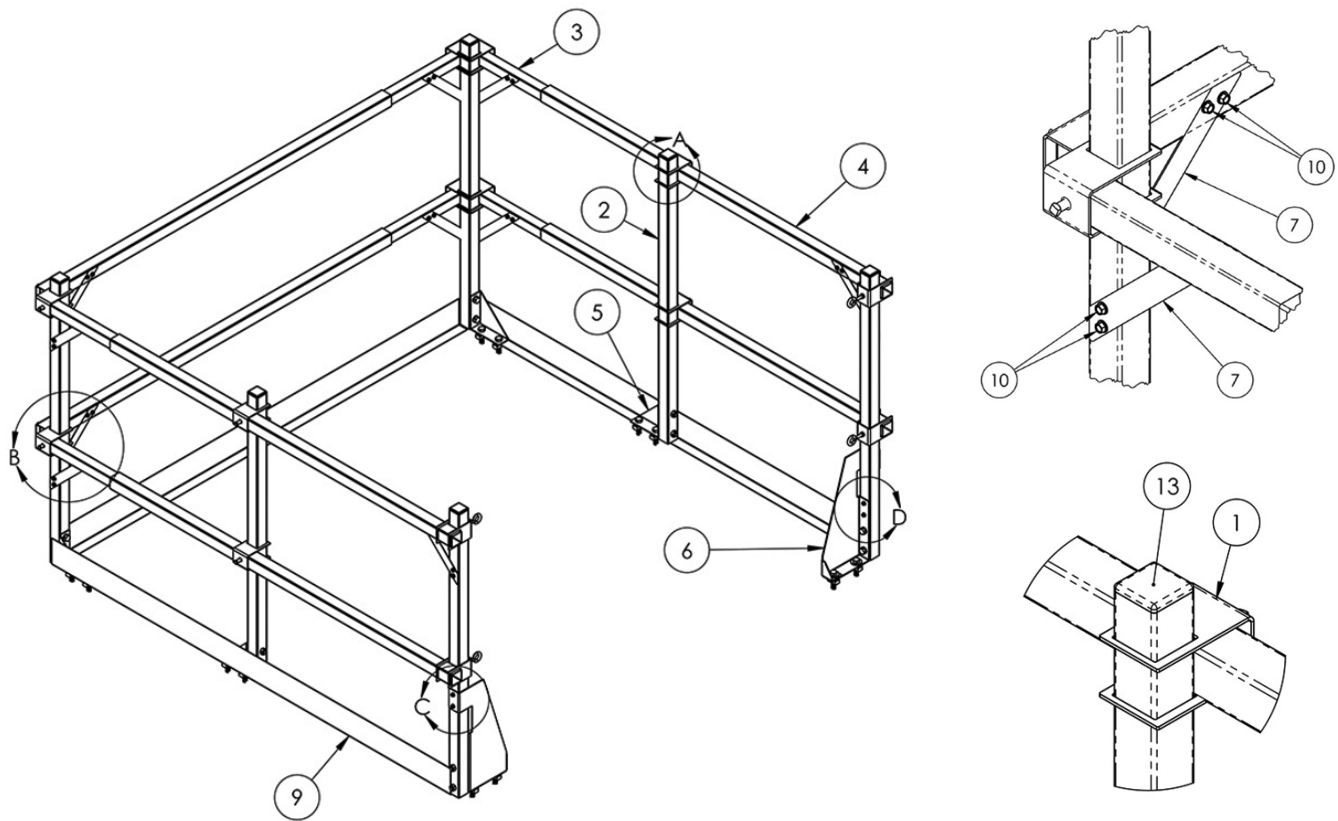
Item	Qty	Part No.	Description	Size	Length
1	8	18-400-01	HANDRAIL CLAMP	-	-
2	4	18-400-03	HANDRAIL POST	-	-
3	4	18-400-06	1 1/2" SQ X .06W X 40" LONG	-	-
4	4	18-400-07	HANDRAIL	-	-
5	4	20-10085862	TOCH OPENING GUSSET	-	-
6	1	INSTRUCTIONS_18-4XX	INSTALLATION INSTRUCTIONS	-	-
7	2	18-405-04-70	KICKPLATE, GALVANIZED X 70" LG	-	-
8	24	31822	1/4-14 X 3/4 SELF DRILLING SCREW ZINC	-	-
9	2	CHAIN KIT-100	CHAIN KIT, HANDRAIL	-	-
10	4	STI 1 3/4"	CAPS, TUBE, SQUARE	1 3/4"	-
11	1	10034084	TOCH HARDWARE KIT	-	-

BILL OF MATERIALS - 18-440



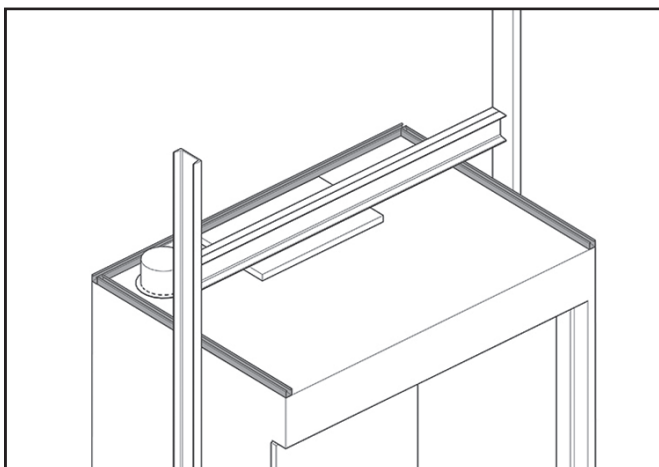
Item	Qty	Part No.	Description	Size	Length
1	12	18-400-01	HANDRAIL CLAMP	-	-
2	4	18-400-03	HANDRAIL POST	-	-
3	6	18-400-08	HANDRAIL	-	-
4	6	18-400-09	HANDRAIL	-	-
5	2	18-400-10	GUSSET MOUNTING BRACKET	-	-
6	2	20-10085862	TOCH OPENING GUSSET	-	-
7	10	20-10085732	TOCH STRAIGHT SIDE GUSSET	-	-
8	1	INSTRUCTIONS_18-4XX	INSTALLATION INSTRUCTIONS	-	-
9	3	18-405-04-70	KICKPLATE, GALVANIZED X 70" LG	-	-
10	60	31822	1/4-14 X 3/4 SELF-DRILLING SCREW ZINC	-	-
11	1	CHAIN KIT-100	CHAIN KIT, HANDRAIL	-	-
12	1	10034079	TOCH HARDWARE KIT	-	-
13	4	STI 1 3/4	CAPS, TUBE, SQUARE	1 3/4"	-

BILL OF MATERIALS - 18-450



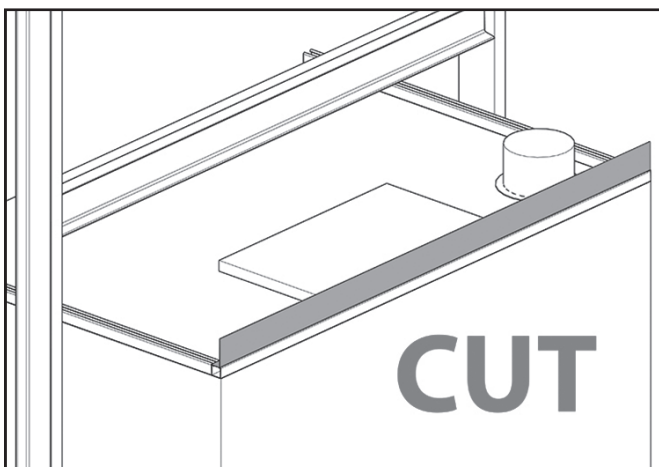
Item	Qty	Part No.	Description	Size	Length
1	16	18-400-01	HANDRAIL CLAMP	-	-
2	6	18-400-03	HANDRAIL POST	-	-
3	6	18-400-08	HANDRAIL	-	-
4	6	18-400-09	HANDRAIL	-	-
5	4	18-400-10	GUSSET MOUNTING BRACKET	-	-
6	2	20-10085862	TOCH OPENING GUSSET	-	-
7	10	20-10085732	TOCH STRAIGHT SIDE GUSSET	-	-
8	1	INSTRUCTIONS_18-4XX	INSTALLATION INSTRUCTIONS	-	-
9	3	18-405-04-70	KICKPLATE, GALVANIZED X 70" LG	-	-
10	60	31822	1/4-14 X 3/4 SELF-DRILLING SCREW ZINC	-	-
11	1	CHAIN KIT-76	CHAIN KIT, HANDRAIL	-	-
12	1	10034081	TOCH HARDWARE KIT	-	-
13	6	STI 1 3/4"	CAPS, TUBE, SQUARE	1 3/4"	-

INSTALLATION - EX SERIES



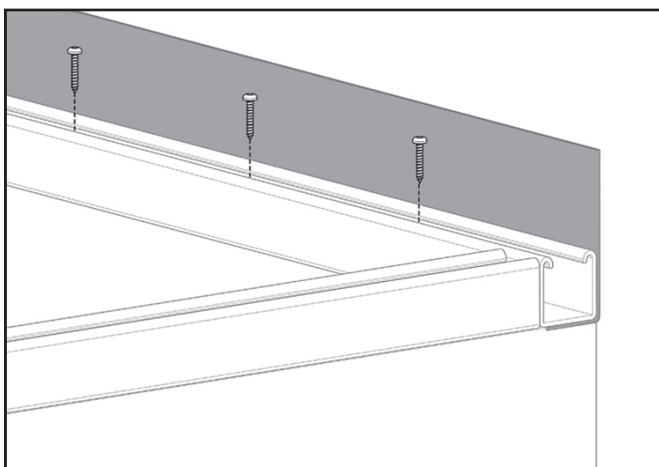
Step 1: Cutting the Unistrut

- Measure and trim Unistrut sections to match the cab's top dimensions.
- *NOTE: For front & rear opening models, use two pieces of Unistrut.



Step 2: Cutting the Kick Plates

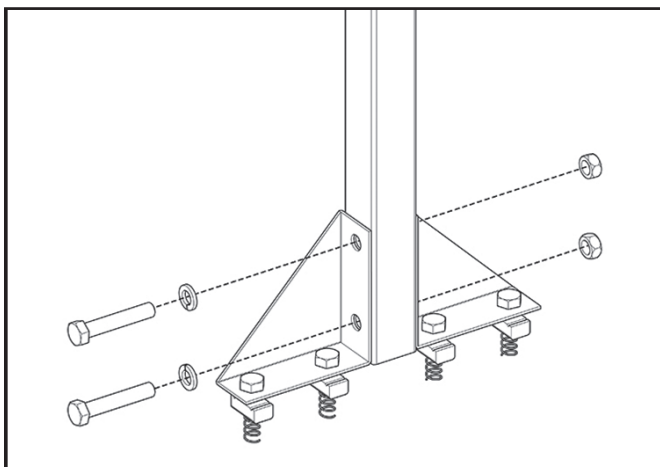
- Measure and trim Kickplates to match the cab's top dimension.
- *NOTE: Kickplates should overlap by a minimum of 10".



Step 3: Securing Unistrut and Kickplates

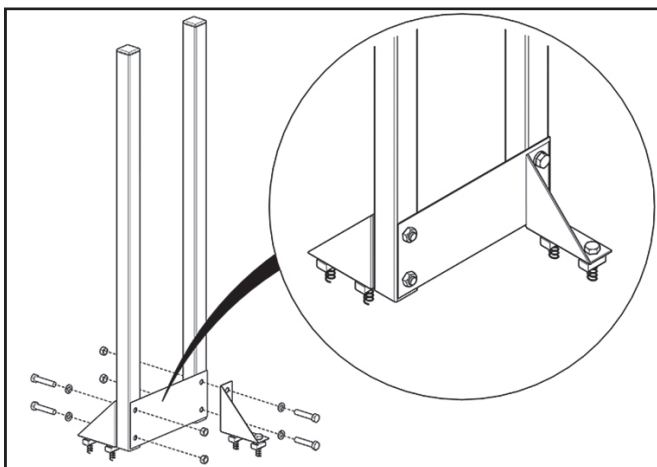
- Place the lip of the Kickplate beneath the section of Unistrut, then bend upright (as shown).
- Secure both to the top of the cab with sheet metal screws.
- Repeat to secure remaining sections of Unistrut.

INSTALLATION - EX SERIES



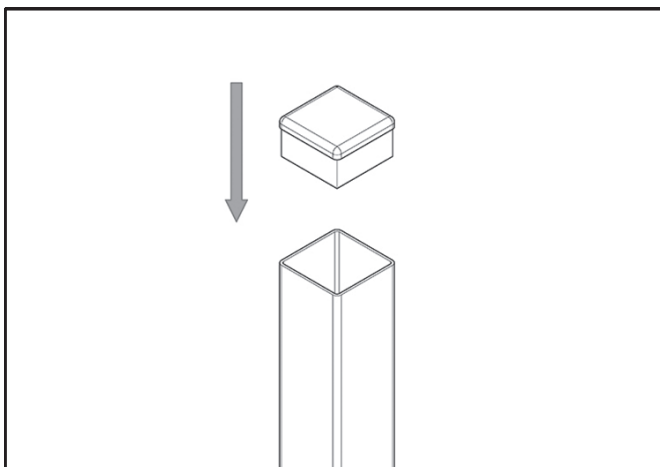
Step 4: Attaching Mounting Brackets to Posts

- Mount the gusset mounting brackets to the vertical posts.
- **BACK CORNER POSTS** - Use one bracket for the back corner posts. Use the 1/2-13 x 2-1/2" hex head cap screws, lock washers, and hex 1/2-13 hex nuts to secure.
- **MIDDLE POSTS** - Use two brackets for the middle posts. Use the longer, 1/2-13 x 2-3/4 " hex head cap screws, lock washers, and 1/2-14 hex nuts to secure.



Step 5: Bracing the Front Vertical Posts

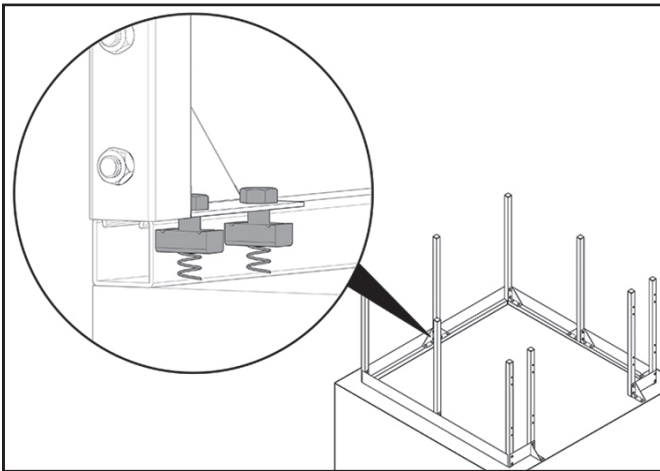
- Place the lower brace between two vertical posts.
- Align the brackets as shown and secure the brace using hex head cap screws, lock washers, and hex nuts.



Step 6: Adding the Post Caps

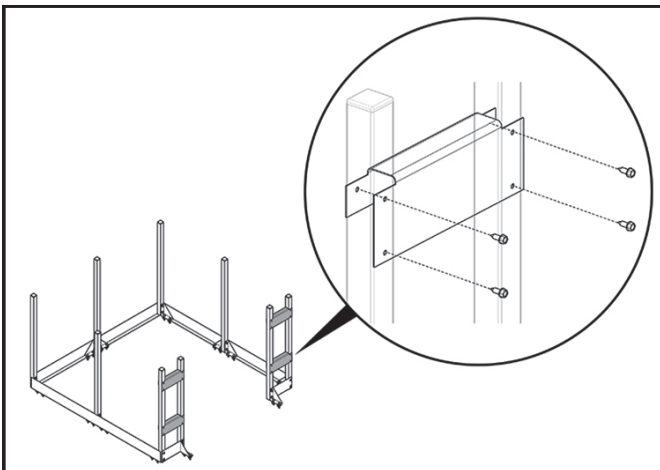
- Add the caps to the tops of each vertical post.

INSTALLATION - EX SERIES



Step 7: Attaching the Posts

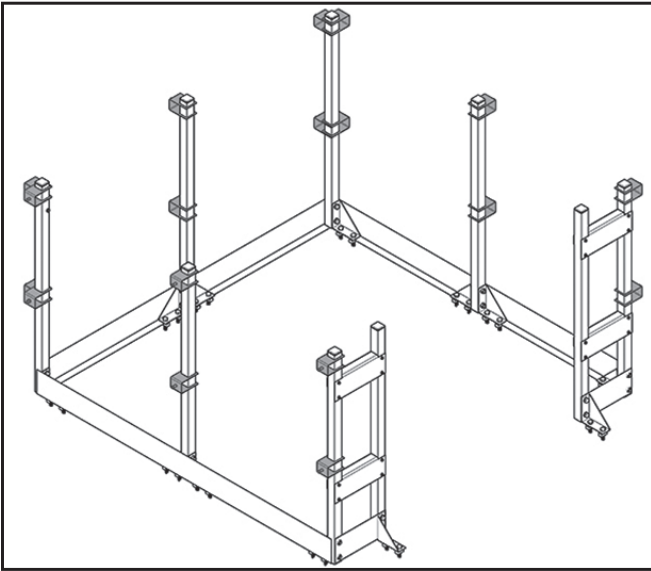
- *NOTE: Vertical Posts should be no more than 96" apart.
- Slide two spring nuts into the unistrut channel.
- Position the vertical posts over the unistrut.
- Insert the 1", 3/8-16 set screws. Hand tighten the jam nut to secure in place.
- *NOTE: Do not fully tighten jam nut at this point.
- Repeat these steps until all posts are secured.



Step 8: Attaching Front Braces

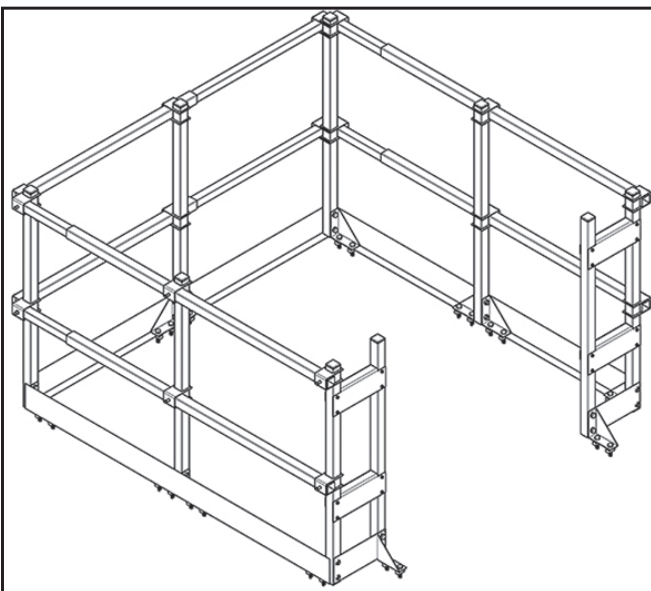
- *NOTE: Attach the lower support brace, then add a U-Bracket to the outer, front post before adding the upper support brace.
- Position the lower support brace onto the two front posts as shown.
- Use six, 1/4 x 3/4" self drilling screws to secure each brace in place.
- Slide a U-Bracket onto the outer-front post and use the set screw to loosely hold it in place. *NOTE: Refer to the image on the next page for U-Bracket placement.
- Follow the steps to add the upper support brace and U-Bracket.
- Repeat until all four support braces are secured.

INSTALLATION - EX SERIES



Step 9: Adding the U-Brackets

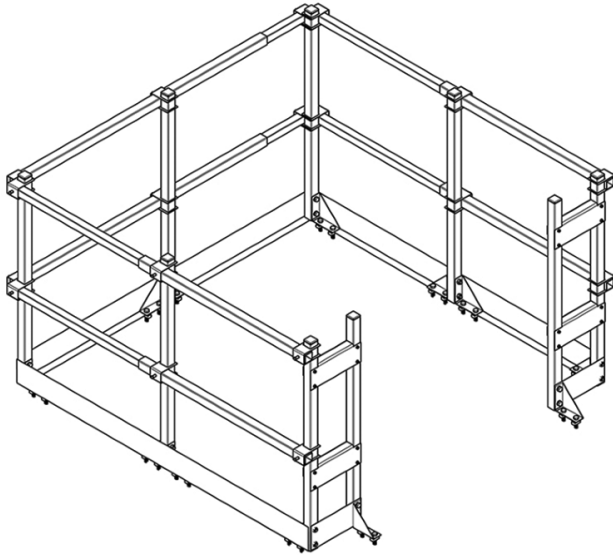
- *NOTE: The number of U-Brackets used in this step varies depending on the model purchased.
- Insert 3/8-16 x 1" set screws with jam nut in each U-bracket, but do not fully tighten.
- *NOTE: The lower U-Brackets should be approximately 21" from the top of the cab, while the upper U-Brackets should be approximately 42" from the top of the cab.
- Each vertical post should have upper and lower set of bracket(s) as shown in the pictures, except for the front posts near the opening.
- For the rear posts: Stack two U-Brackets with their square holes aligned. Orient the brackets so the open part of the U faces towards the cab. Slide the brackets onto the vertical post and hand-tighten the set screws to secure them in place.
- For front and middle posts: Position a single U-Bracket with the open part of the U facing towards the cab. Slide the bracket onto the vertical post and hand-tighten the set screws to secure it in place.



Step 10: Connecting Telescopic Tubing

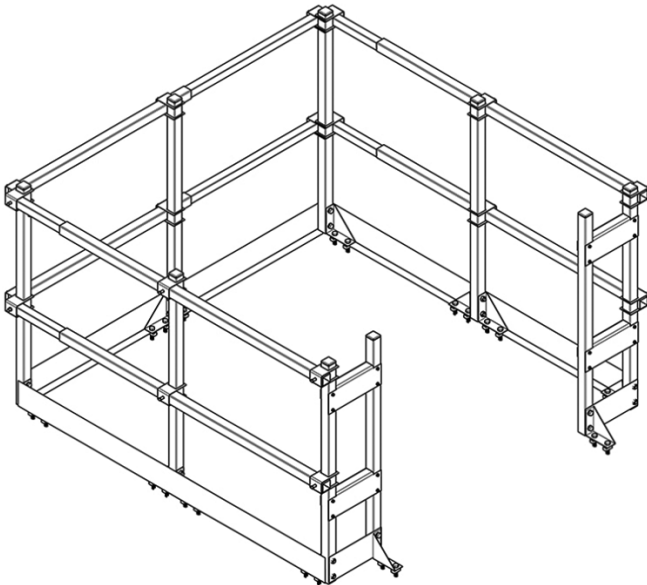
- Slide the Telescopic Tubing through the U-Brackets, and adjust the tubing to the correct length.
- Make any adjustments to the U-Brackets as needed, then fully tighten the set screws on the U-Brackets.
- Repeat until all handrails are secured.

BILL OF MATERIALS - 18-400-EX



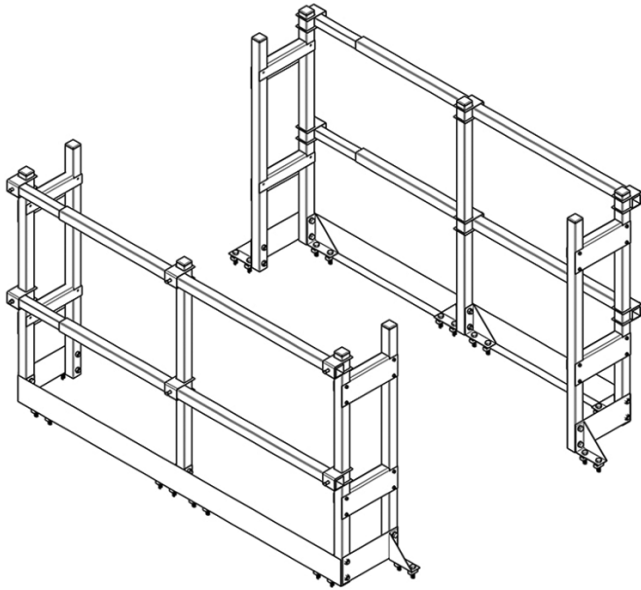
Item	Qty	Part No.	Description
1	18	18-400-01	HANDRAIL CLAMP
2	9	18-400-03	HANDRAIL POST
3	4	18-400-06	1 1/2" SQ X .06W X 40" LONG
4	4	18-400-07	HANDRAIL
5	2	18-400-08	1 1/2" SQ X .06W X 60" LONG
6	2	18-400-09	HANDRAIL
7	12	18-400-10	GUSSET MOUNTING BRACKET
8	4	18-400-14EX	SUPPORT BRACKET
9	2	18-400-16EX-C	LOWER BRACE
10	3	18-400-70EX	KICK PLATE, GALVANIZED X 70" LG
11	1	INSTRUCTIONS_18-4XX	TOC HANDRAIL INSTRUCTIONS
12	1	10034080	TOCH HARDWARE KIT
13	9	STI 1 3/4	CAPS, TUBE SQUARE

BILL OF MATERIALS - 18-410-EX



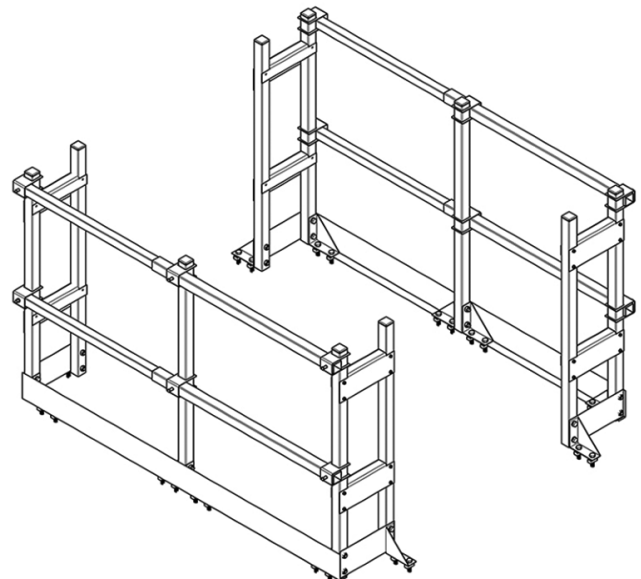
Item	Qty	Part No.	Description
1	18	18-400-01	HANDRAIL CLAMP
2	9	18-400-03	HANDRAIL POST
3	2	18-400-06	1 1/2" SQ X .06W X 40" LONG
4	2	18-400-07	HANDRAIL
5	4	18-400-08	1 1/2" SQ X .06W X 60" LONG
6	4	18-400-09	HANDRAIL
7	12	18-400-10	GUSSET MOUNTING BRACKET
8	4	18-400-14EX	SUPPORT BRACKET
9	2	18-400-16EX-C	LOWER BRACE
10	3	18-400-70EX	KICK PLATE, GALVANIZED X 70" LG
11	1	INSTRUCTIONS_18-4XX	TOC HANDRAIL INSTRUCTIONS
12	9	STI 1 3/4	CAPS, TUBE SQUARE
13	1	10034080	TOCH HARDWARE KIT

BILL OF MATERIALS - 18-420-EX



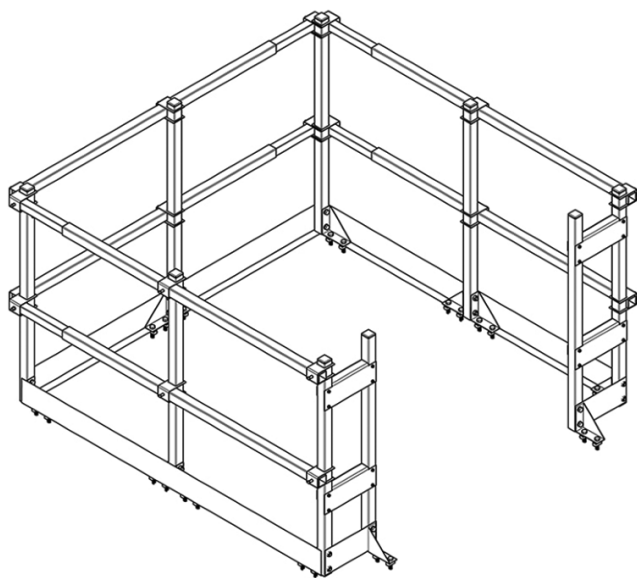
Item	Qty	Part No.	Description
1	12	18-400-01	HANDRAIL CLAMP
2	10	18-400-03	HANDRAIL POST
3	4	18-400-08	1 1/2" SQ X .06W X 60" LONG
4	4	18-400-09	HANDRAIL
5	12	18-400-10	GUSSET MOUNTING BRACKET
6	8	18-400-14EX	SUPPORT BRACKET
7	4	18-400-16EX-C	LOWER BRACE
8	2	18-400-70EX	KICK PLATE, GALVANIZED X 70" LG
9	1	INSTRUCTIONS_18-4XX	TOC HANDRAIL INSTRUCTIONS
10	1	10034080	TOCH HARDWARE KIT
11	10	STI 1 3/4	CAPS, TUBE SQUARE

BILL OF MATERIALS - 18-430-EX



Item	Qty	Part No.	Description
1	12	18-400-01	HANDRAIL CLAMP
2	10	18-400-03	HANDRAIL POST
3	4	18-400-06	1 1/2" SQ X .06W X 40" LONG
4	4	18-400-07	HANDRAIL
5	12	18-400-10	GUSSET MOUNTING BRACKET
6	8	18-400-14EX	SUPPORT BRACKET
7	4	18-400-16EX-C	LOWER BRACE
8	2	18-400-70EX	KICK PLATE, GALVANIZED X 70" LG
9	1	INSTRUCTIONS_18-4XX	TOC HANDRAIL INSTRUCTIONS
10	1	10034080	TOCH HARDWARE KIT
11	10	STI 1 3/4	CAPS, TUBE SQUARE

BILL OF MATERIALS - 18-450-EX



Item	Qty	Part No.	Description
1	18	18-400-01	HANDRAIL CLAMP
2	9	18-400-03	HANDRAIL POST
3	6	18-400-08	1 1/2" SQ X .06W X 40" LONG
4	6	18-400-09	HANDRAIL
5	12	18-400-10	GUSSET MOUNTING BRACKET
6	4	18-400-14EX	SUPPORT BRACKET
7	2	18-400-16EX-C	LOWER BRACE
8	3	18-400-70EX	KICK PLATE, GALVANIZED X 70" LG
9	1	INSTRUCTIONS_18-4XX	TOC HANDRAIL INSTRUCTIONS
10	9	STI 1 3/4	CAPS, TUBE SQUARE
11	1	10034080	TOCH HARDWARE KIT

