

Platform Manual

24" 9X6



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Platform Placement

Lambton Conveyor platforms have been specifically designed for placement on certain areas of the bucket elevator. Below is a list of the different types of platforms, their uses, and recommended placement. Any other use or placement aside from the ones mentioned below could result in serious injury or death.

Rest Platform

The Lambton Conveyor rest platform is intended to be used as a safety platform while climbing the elevator to prevent serious injury in the case of a fall. It is to be located every 20' for federal applications, or every 30' as a provincial standard. When standing a bucket elevator in two or more sections the rest platform should be mounted in an adequate position to allow for trunking to be connected (just below the joint).

Work Platform

The Lambton Conveyor work platform is intended to be mounted approximately 6' below the elevator distributor to the trunking and should be used for servicing the distributor and installing down spouts only. Due to various layouts it may be necessary to mount the platform lower in order to miss the distributor valves or spouting.

Head Service Platform

The Lambton Conveyor head service platform is intended to be mounted directly to the elevator head or just below the head with smaller elevators in order to service and repair problems with the head itself or drive assembly. The service platform is not intended to be used anywhere else on the elevator.

It is the owners'/operators' responsibility to ensure all unauthorized personnel are kept clear of these assemblies and that all workers/operators are aware of the necessary safety precautions.



Owners Installation Manual

24" 9X6 Standard Rest Platform

Parts List

Part Name	#	Part#	Description	Length	Quantity
Primary support channel	1	C - channel	urestp24.000	47"	3
Secondary support channel	2	C - channel	urestp24.001	60 1/4"	2
Kick braces	3	Angle	urestp24.009	66 13/16"	2
Door support	4	Angle	urestp24.010	24"	2
Door stiffener	5	Angle	urestp24.011	23"	2
Hinge stiffener	6	Angle	urestp24.012	26 3/8"	2
Floor stiffener	7	Angle	urestp24.006	19 3/16"	1
Door toe board – short	8B	Angle	urestp24.013	7 3/4"	2
Door toe board – long	8A	Angle	urestp24.013	31"	1
Long toe board	9	Angle	urestp24.002	67 3/4"	2
Short toe board	10	Angle	urestp24.003	43 13/16"	2
Rail post	11	Angle	urestp24.004	42"	4
Long Handrail	12	Angle	urestp24.008	68"	4
Short Handrail	13	Angle	urestp24.007	48 1/8"	4
Floor panel with Door	14	Flat Sheet	urestp24.014	45" X 43 1/4"	1
Small panel	15	Flat Sheet	urestp24.005	43 1/4" X 21 1/2"	1
Door Handle	H	NA	NA	NA	1
5/16" x 3/4" hex bolts	All bolts used are Grade 8 strength ONLY Torque to 120 ft. lbs. minimum.				60
5/16" x 3/4" truss slot (button head) bolts					65
5/16" hex nuts					125
Hinge kit					1

NOTE: Use truss slot bolts for all floor panel connections.

This platform includes two half “Flared (Starter) cage hoops” which are meant to start the safety cage continuing up the leg.

Step #1

Start by mounting the (3) primary support channels to the trunk using the existing $\frac{5}{16}$ " x $\frac{3}{4}$ " bolts in the trunk hemlock. (2) are mounted at the same height and the 3rd is mounted (4) sets of holes lower, on the same side the ladder is mounted on.



**Primary Support Channel
(1)**

Step #2

The (2) secondary support channels can now be mounted on top of the primary channels. The kick braces can also be added at this stage. They bolt from the ends of the secondary support channels to the top lip of the lower primary support channel using $\frac{5}{16}$ X $\frac{3}{4}$ " bolts as shown below. *NOTE* the ends of the kick braces will need to be bent approximately 45° to fit properly.

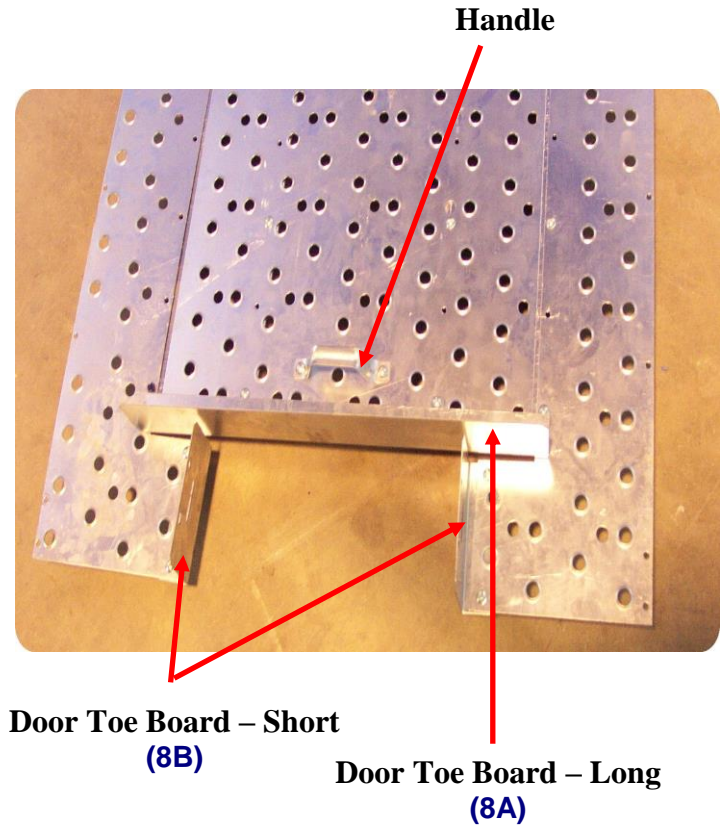
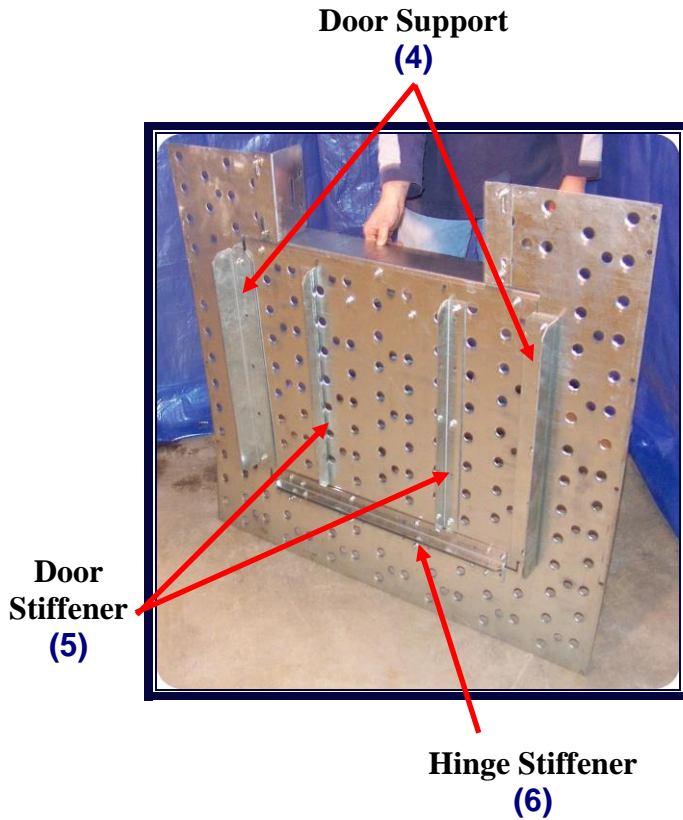


**Secondary Support Channel
(2)**

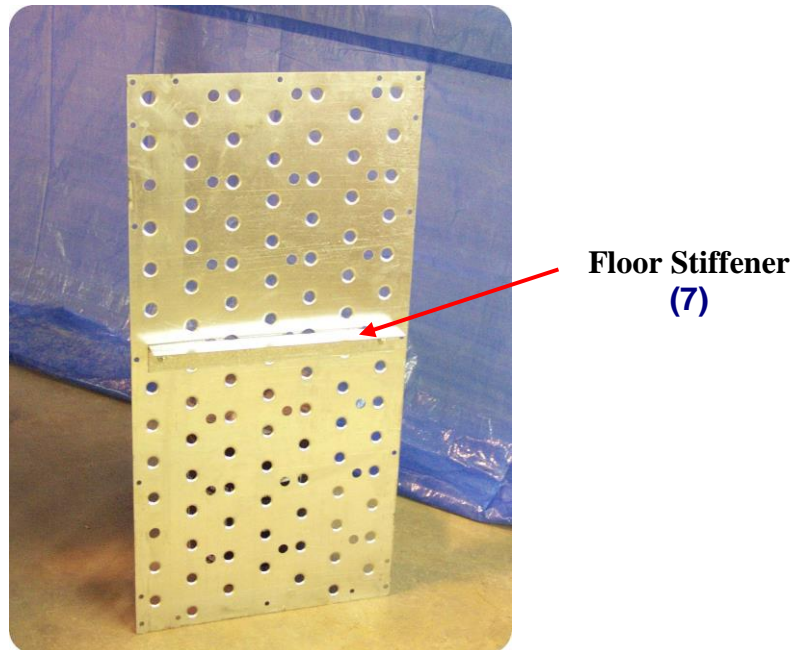
**Kick Braces
(3)**

Step #3

Now locate the door panel and the floor panel. The door panel needs (2) hinge stiffener angles, (4) hinges, (2) door support angles, (2) door stiffener angles, and the (3) door toe board angles bolted as shown below. All pieces will be bolted together by $\frac{5}{16}$ X $\frac{3}{4}$ bolts, except for the hinges and hinge stiffeners, which will use $\frac{1}{4}$ X 1 bolts. *NOTE* The (4) hinges, Door toe board – long and handle bolt on the top side of the panel. All other parts bolt on the underside.



Also attach the floor stiffener to the bottom of the small floor panel.



Step #4

The (4) remaining toe boards and the floor panels can now be bolted to the secondary support channels. The toe boards go under the floor panels. *NOTE* the offset can go to the left side or to the right side of the trunking. Our pictures show offset to the right.

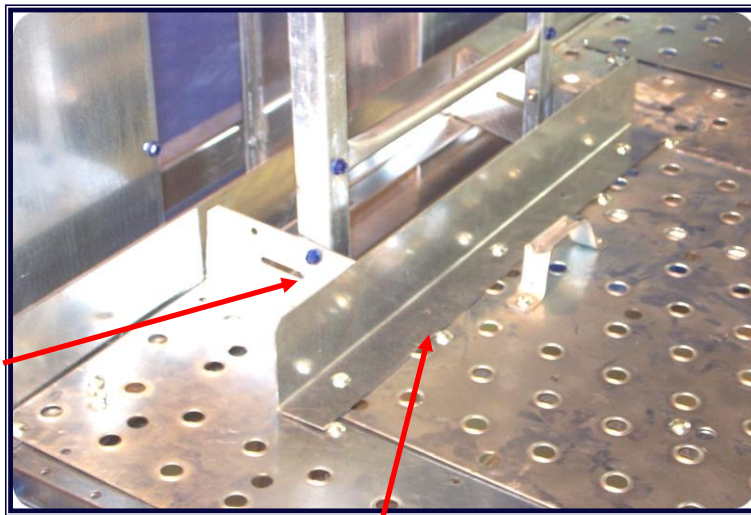


Short toe board
(10)

Long toe board
(9)

Step #5

With the door panel and toe boards in place, the ladder will need to be drilled and bolted to the short toe board on each side of the door, using $\frac{5}{16}$ X $\frac{3}{4}$ " bolts.

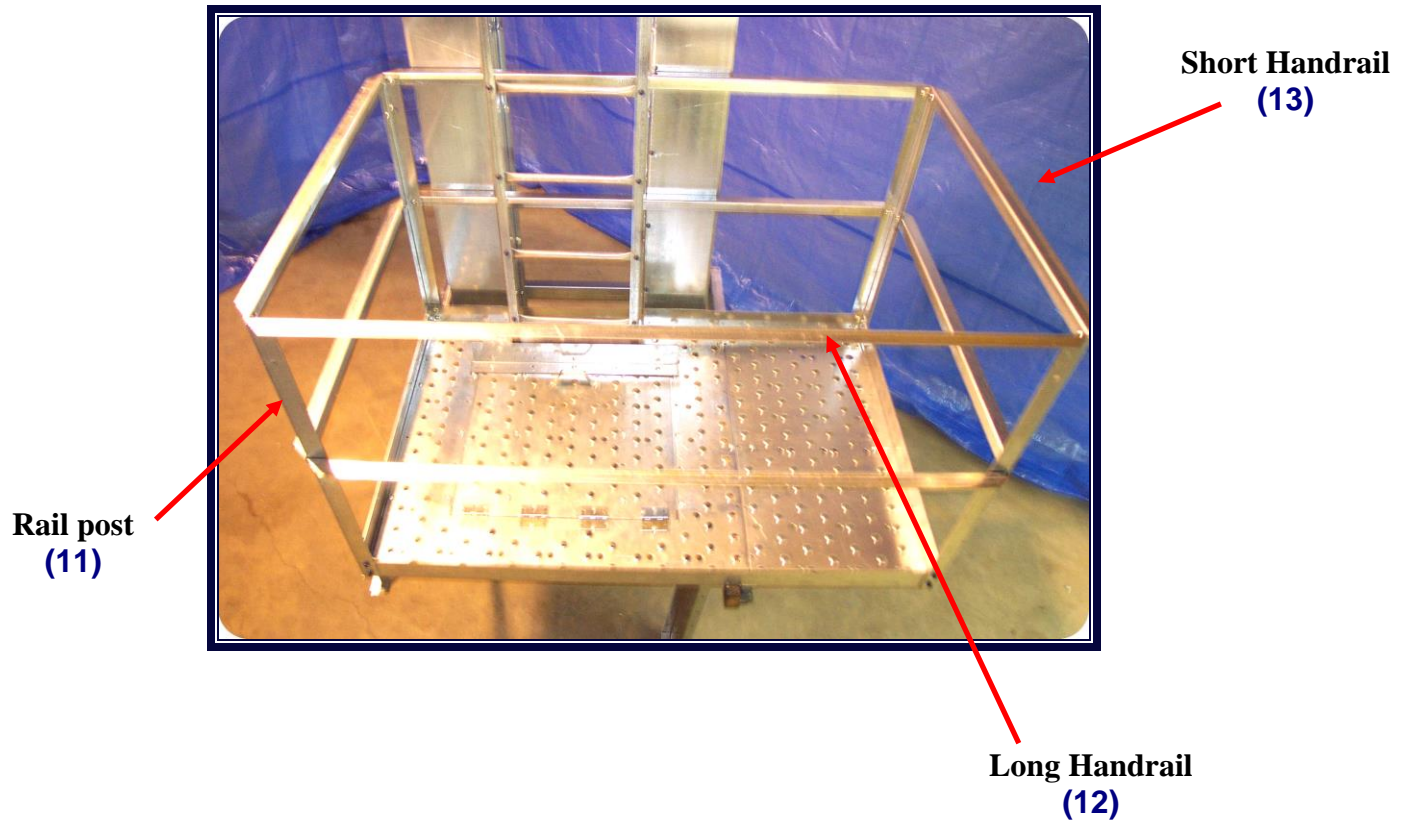


Drill & Bolt
(each side)

This toe board gets bolted to the topside of the door panel.
(All other toe boards are bolted beneath the floor panels)

Step #6

The final step is to attach the (4) rail posts and handrails as shown.





Owners Installation Manual

24" 9X6 Small Work Platform

NOTE:

The two kick braces will bolt to the floor supports from step 8. Bolt the braces so that they angle in toward the trunking, thus supporting the large floor panel. The other end of the braces will bolt to the trunking by removing and re-bolting at the hemlock.

Use truss slot bolts for all floor panel connections.

Step #1

To assemble your small work platform start by mounting the (2) primary support channels to the trunk using the existing trunk hemlock bolts. Keep in mind that the top of the primary support channels should be approximately 6' below the distributor or valve. This distance allows ample room so that the handrails do not interfere with the downspouts.



Primary Support Channels

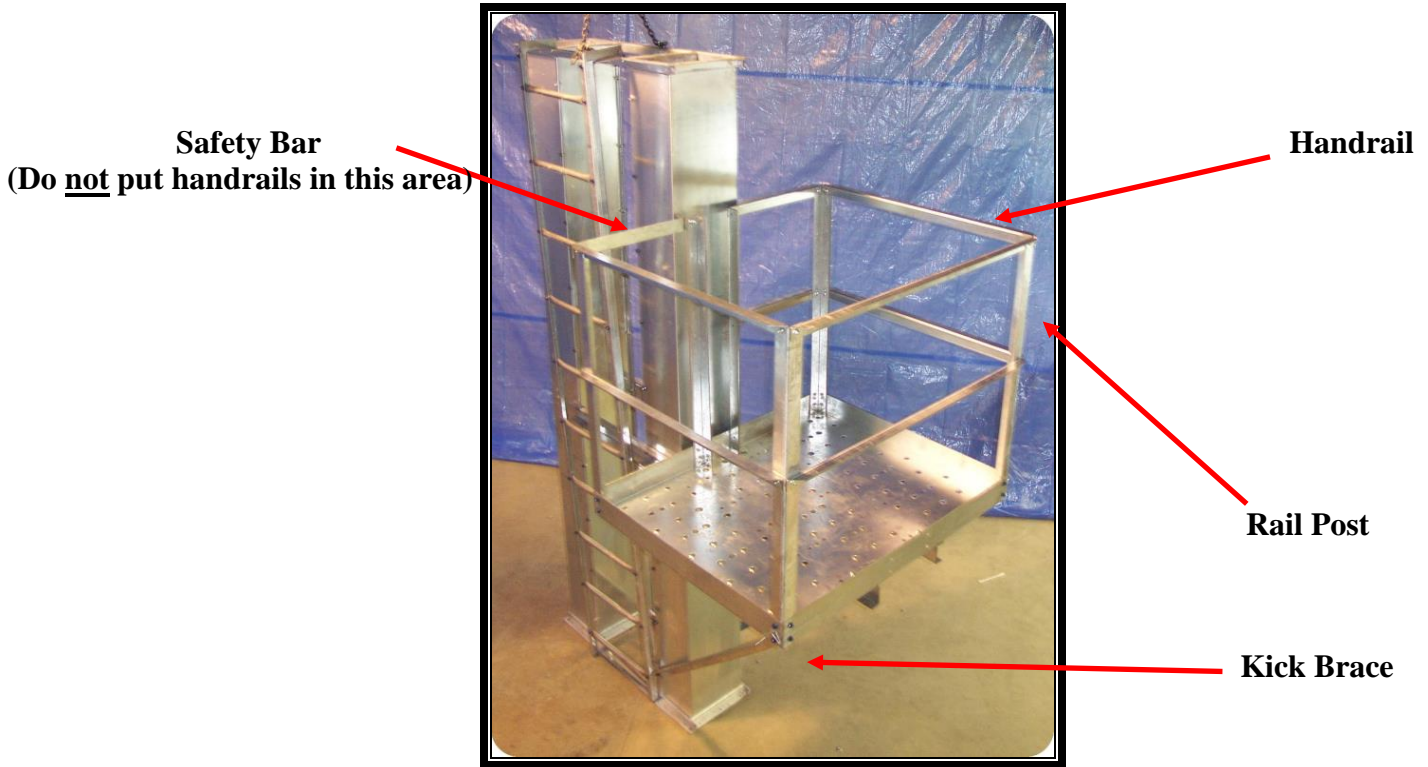
Step #2

Now place the floor panel on top of the primary support channels and bolt using the $\frac{5}{16}$ " X $\frac{3}{4}$ " button head bolts. The (2) 1- $\frac{1}{2}$ " X 1 $\frac{1}{2}$ " kick brace angles can also be attached now. The kick brace angles bolt from the front corners of the floor panel and extend down to the existing bolts in the trunk hemlock. The ends of the brace angles will need to be bent slightly to allow the braces to bolt flat.



Step #3

Now attach the (6) 2"X 2" rail posts to the floor panel. (1) rail post goes in each corner. The remaining (2) go along the backside of the platform near the center. The 1 1/2" X 1 1/2" handrail angles can also be added using 5/16" X 3/4" hex head bolts. Do not put handrails on the rear-ladder side of the platform.



Step #4

Finally, on the rear ladder side of the platform attach the flat safety bar. This allows access onto and off the platform. The safety bar needs to be able to pivot. To accomplish this, the 5/16" X 1 1/4" pivot bolt needs to be double nutted as well as the locking bolt as shown below.



Your platform is now complete and should resemble the picture below.



To access the platform from the leg ladder you must step out of the safety cage and across to the platform. You may want to remove or modify 1 or 2 of the vertical cage straps in this area to make access easier. For safety reasons we do **not** recommend removing all the safety cage in this area.



Owners Installation Manual

24" 9X6 Large Work Platform

Parts List Information

Ref #	Description	Length	Width	Height	Gauge	Quantity	Part #
1	primary support C-channel	87	2	3	10	2	uworkp24.000
2	back secondary support C-channel	60 1/4	2	4	10	1	uworkp16.019
3	rear secondary support C-channel	104	2	4	10	1	uworkp16.001
4	middle secondary support C-channel	83 7/8	2	4	10	1	uworkp16.002
5	front secondary support C-channel	43 3/8	2	4	10	1	uworkp16.003
6	door support	24 1/4	2 1/2	2 1/2	10	2	uservp24.002
7	rear ladder toe board	46	1 2	4	14	1	uworkp24.001
8	floor panel/door frame	45	43 1/4	--	14	1	uservp24.000
9	door-side toe board	43 9/16	1 2	4	10	1	uworkp24.002
10	door-front toe board	54 5/8	1 2	4	14	1	uworkp24.003
11	ladder toe board	7 3/4	2 1/4	4	14	2	uservp16.008a
12	floor/door panel	28 2	26 3/4	--	14	1	uservp24.000A
13	door toe board	31	2 1/4	4	14	1	uservp16.008
14	Door stiffener	23	1 2	1 2	10	2	uservp16.004
15	hinge stiffener	26 3/4	1 2	1	10	2	uservp16.005
16	work area floor panel	102 2	40 3/8	--	14	1	uworkp16.M21
17	rear work area toe board	43 3/4	1 2	4	14	1	uworkp24.006
17a	rear work area toe board	16	1 1/2	4	14	1	uworkp24.006A
18	front angle toe board	45 1/8	1 2	4	10	2	uworkp24.004
19	front work area toe board	40	1 2	4	14	1	uworkp24.005
19a	short work area toe board	9 3/8	1 2	4	14	1	uworkp24.005A
20	Rail Post – 90	42	2	2	10	4	uservp16.018
20a	Rail Post - 45	42	2	2	10	4	uservp16.018A
21	door-side hand rail	43 1/16	1 2	1 2	10	2	uworkp24.008
22	rear work area hand rail	59 5/16	1 2	1 2	10	2	uworkp24.013
23	short work area hand rail	8 7/8	1 2	1 2	10	2	uworkp24.012
24	front angle hand rail	44 9/16	1 2	1 2	10	4	uworkp24.009

Ref #	Description	Length	Width	Height	Gauge	Quantity	Part #
25	front work area hand rail	39 1/5	1 2	1 2	10	2	uworkp24.011
26	door-front hand rail	54 1/8	1 2	1 2	10	2	uworkp24.010
27	rear ladder hand rail	44 3/8	1 2	1 2	10	2	uworkp24.009
28	kick brace	71 7/16	1 2	1 2	10	2	uworkp16.018
29	Primary Support Channel – for kick brace					1	urestp24.000
30	Kick Brace – door area					2	urestp24.009
	hex bolt	3/4	5/16	---	---	90	
	truss slot (button head) bolt	3/4	5/16	---	---	90	
	hex nut	---	5/16	---	---	180	
	Hinge kit	--	--	--	--	1	

NOTE: Use truss slot bolts for all floor panel connections.

This platform includes two half “Flared (Starter) cage hoops” which are meant to start the safety cage continuing up the leg.

1/ Bolt two 87" primary support C-channels (**1**) to outside of trunking. This will require removal of two hem locking bolts on each side and then replacing them. Bolt to these primary C-channels, the 60₃" back secondary support C-channel (**2**), the 104" rear secondary support C-channel, the 83_F" middle secondary support C-channel, and the 43_d" front secondary support C-channel.

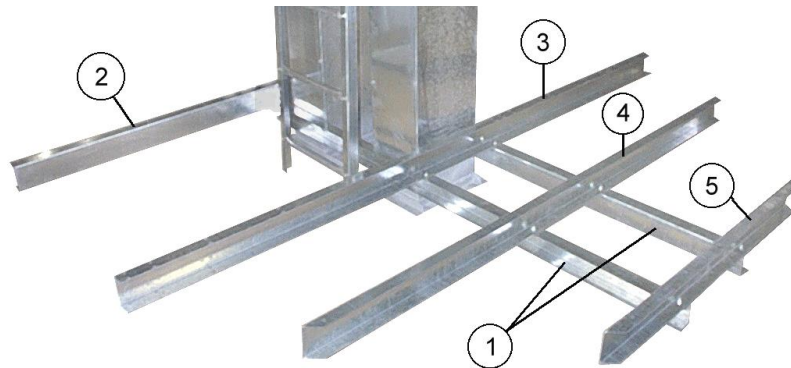


Figure 1

2/ Position the 46" rear ladder toe board (**7**) behind the ladder (no bolts yet). Position the 45"x43₃" (**8**) floor panel/door frame (no bolts yet). Position the 43-⁹/₁₆" door-side toe board (**9**) and the 54_e" door-front toe board (**10**). Orientate the toe boards so that they are on top of the C-channels, but under the floor. Bolt down the floor panel/door frame. Bolt to the underside of the door frame the two 24₃" floor/door supports (**6**).

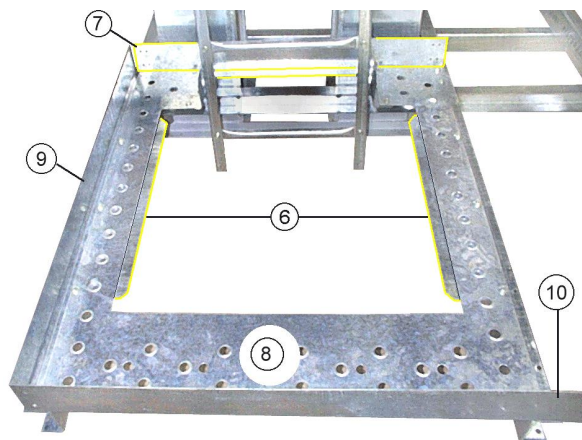
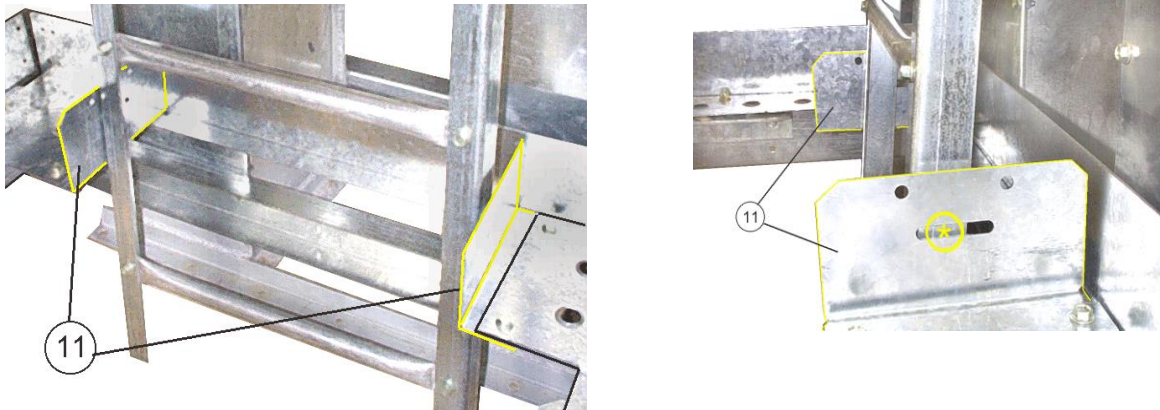


Figure 2

- 3/ Position the two 7: @ ladder toe boards (11) under the floor panel but on top of the rear ladder toe board. Bolt through the ladder toe board into the ladder channel upright (p)(this may require drilling a hole in the ladder channel). Bolt the ladder toe board to the floor.



- 4/ Assemble the 282@x26: @ floor/door panel (12). Bolt on the 31" door toe board (13), two 23" floor/door supports (14), handle, 26: @ Figure 3hinge stiffener (15), and the four hinges (only two hinges are shown). Use the hardware provided with the hinges and handle to bolt them down. Hinges go on top of door; bolt hinge, door and hinge stiffener together.

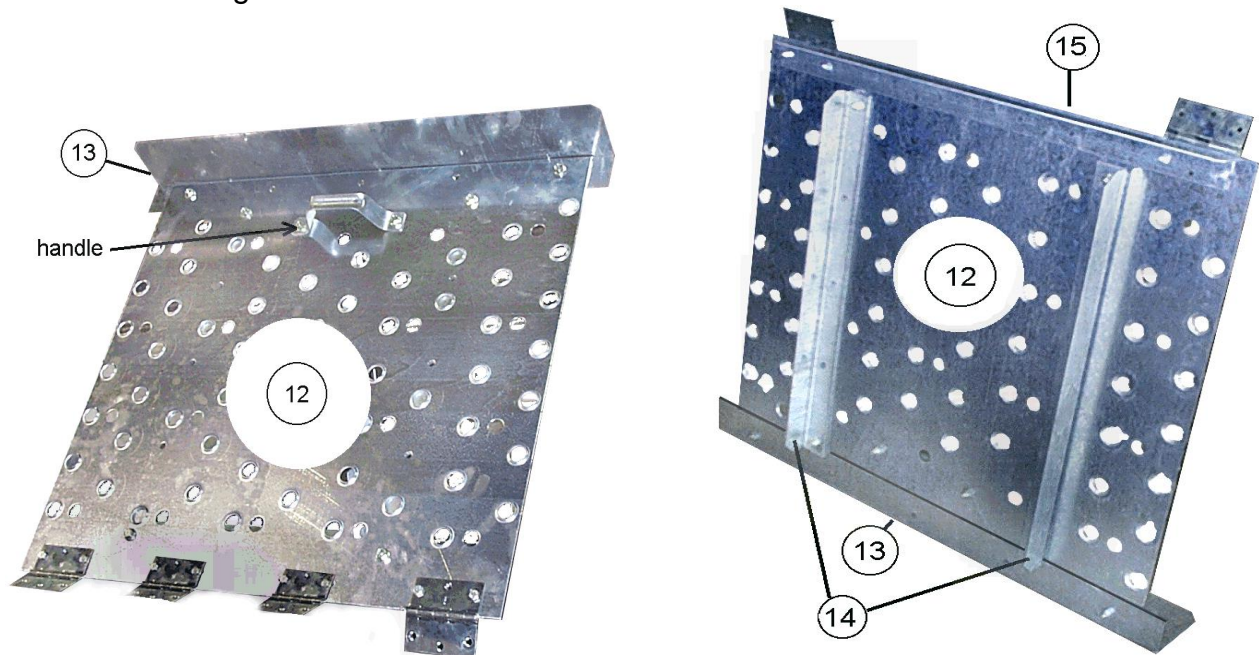


Figure 4

- 5/ Position door assembly in floor/door frame. Bolt the hinges down through the floor. Install the second 26:Ø hinge stiffener (15) to the underside before installing the nuts on the hinge bolts.
NOTE: Only two of four hinges shown.

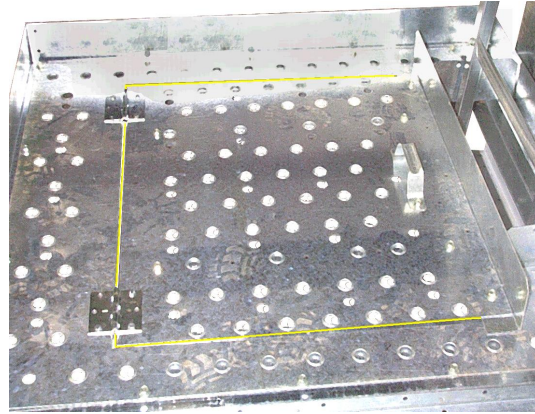


Figure 5

- 6/ Position the 1022Øx40dØ work area floor panel (16) on the supporting C-channels. Around the perimeter (under the floor panel on top of C-channel) position the 43:Ø and the 16" rear work area toe boards (17&17a)(the 16" toe board goes beside the trunk), the two 45Ø front angle toe boards (18), and the 40Ø front work area toe board (19). Bolt down the floor panel on all edges.
(p) Now the 9dØ short work area toe board (part list #19a) may be bolted in. Bolt to the under side of the work area floor, the six 17cØ floor support angles (part list #16a).

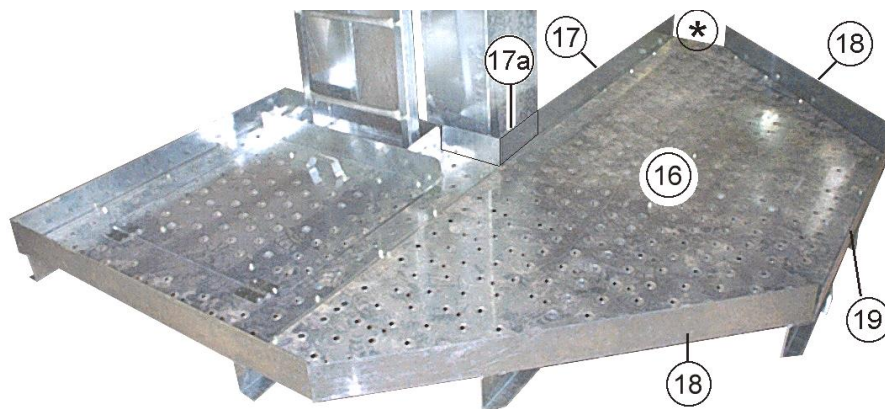


Figure 6

7/ Bolt the eight 42" railing up-rights (20) in all platform corners (on insides of toe boards). Bolt on all handrails with bend facing outward. Two 43 1/16" @ door-side hand rails (21), two 59 5/16" rear work area hand rails (22), two 8f @ short work area hand rails (23), four 44 9/16" @ front angle hand rails (24), two 392 @ front work area hand rails (25), two 54c @ door-front handrails (26), and two 44d @ rear ladder handrails (27)

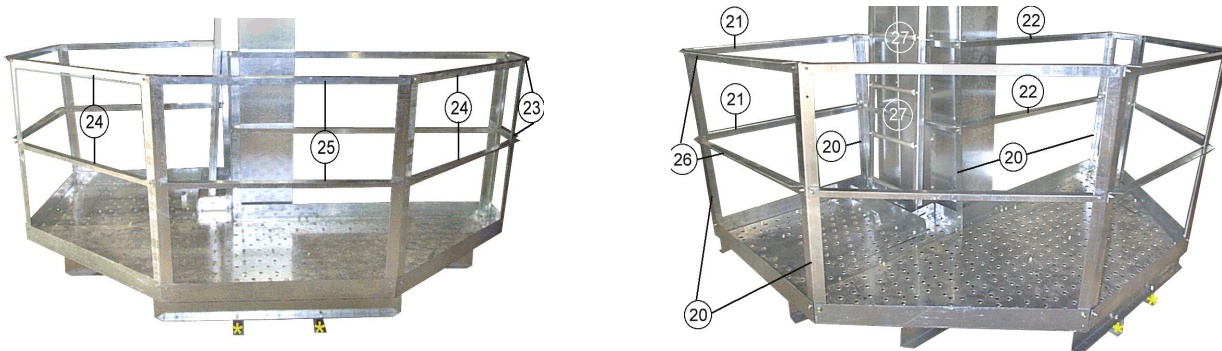


Figure 7

(□)-bolt the two 71 7/16" @ kick braces to main support C-channels at positions marked, extend them down and bolt ends to trunk below.



Owners Installation Manual

24" 9X6 Head Service Platform

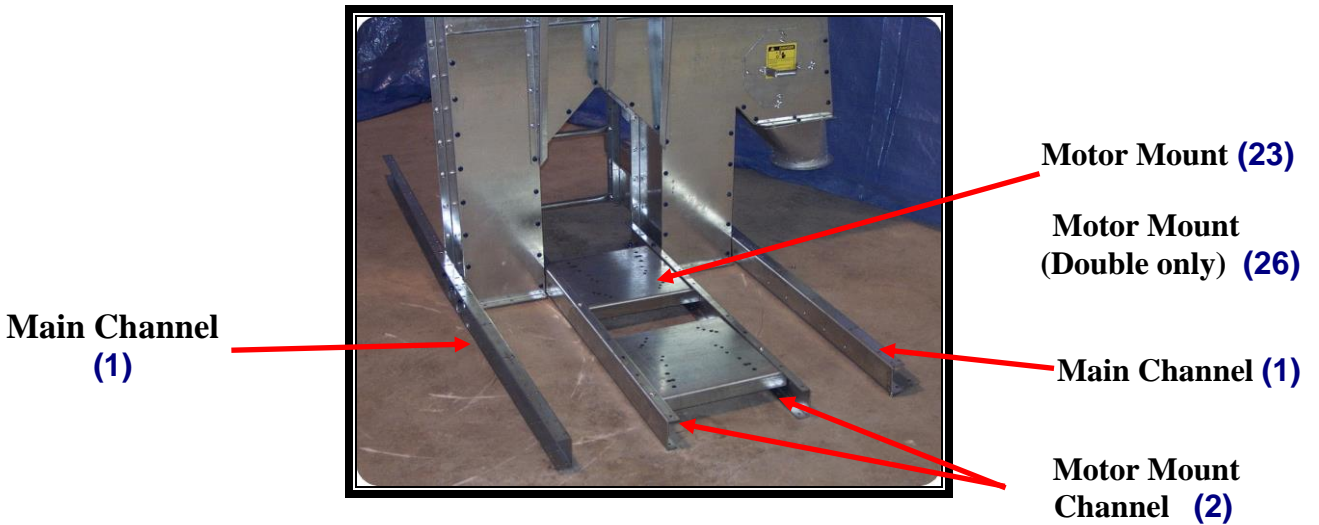
#	Part Name	Part #	Description	Length	Quantity
1	Main Channels	uservp24.022	C - channel	104"	2
2	Motor Mount Channels	uservp24.006	C - channel	58 ¼"	2
3	Platform kick braces	uservp16.013	Angle	73 ¼"	2
4	Motor mount kick braces	uservp24.009	Angle	44 1/16"	2
5	Door support	uservp24.002	Angle	24"	2
6	Door stiffener	uservp16.004	Angle	23"	2
7	Hinge stiffener	uservp16.005	Angle	26 3/8"	2
8	Floor Stiffener	uservp16.007	Angle	37 ¼"	2
9	Front/rear toe board	uservp24.005	Angle	104 3/16"	2
10	Side toe board	uservp24.004	Angle	83 ¼"	2
12a	Door toe board – short	uservp16.008	Angle	7 ¾"	2
12b	Door toe board – long	uservp16.008	Angle	31"	1
13	Rail post	uservp16.004	Angle	42"	7
14	Hand rails – (front)	uservp24.021	Angle	40 5/8"	4
15	Handrails – (side)	uservp24.019	Angle	82 15/16"	4
16	Handrails – (rear)	uservp24.020	Angle	103 ½"	2
17	Floor panel – (w/door)	uservp24.m00	Flat sheet	45" X 43 ¼"	1
18	Floor panel – (motor side)	uservp24.m01	Flat sheet	45" X 43 ¼"	1
19	Floor panel – (rear)	uservp24.m03	Flat sheet	103" X 37"	1
20	Access cover	uservp24.008	Flat sheet	21 ¾" X 10"	1
21	Torque arm mounting angle	Hdpl11x7.425	Angle	13"	2
22	Torque arm channel	Laden.224	C – channel	30 1/16"	1
23	Motor mount	uservp24.007	C – channel	18 3/8"	1
24	Guard bracket – top	uservp24.013	Angle	18 5/16"	1
25	Guard bracket – bottom	uservp24.018	Angle	8"	1
For double motor mount only					
26	Motor mount	uservp24.007	C – channel	18 3/8"	1
27	Guard bracket – top	uhead16.019	Angle	17"	1
28	Guard bracket – bottom	uservp24.014	Angle	8"	1

NOTE: Use truss slot bolts for all floor panel connections.

To assemble your 9X6 service platform we recommend that you check to see if you have all parts as itemized on your parts list.

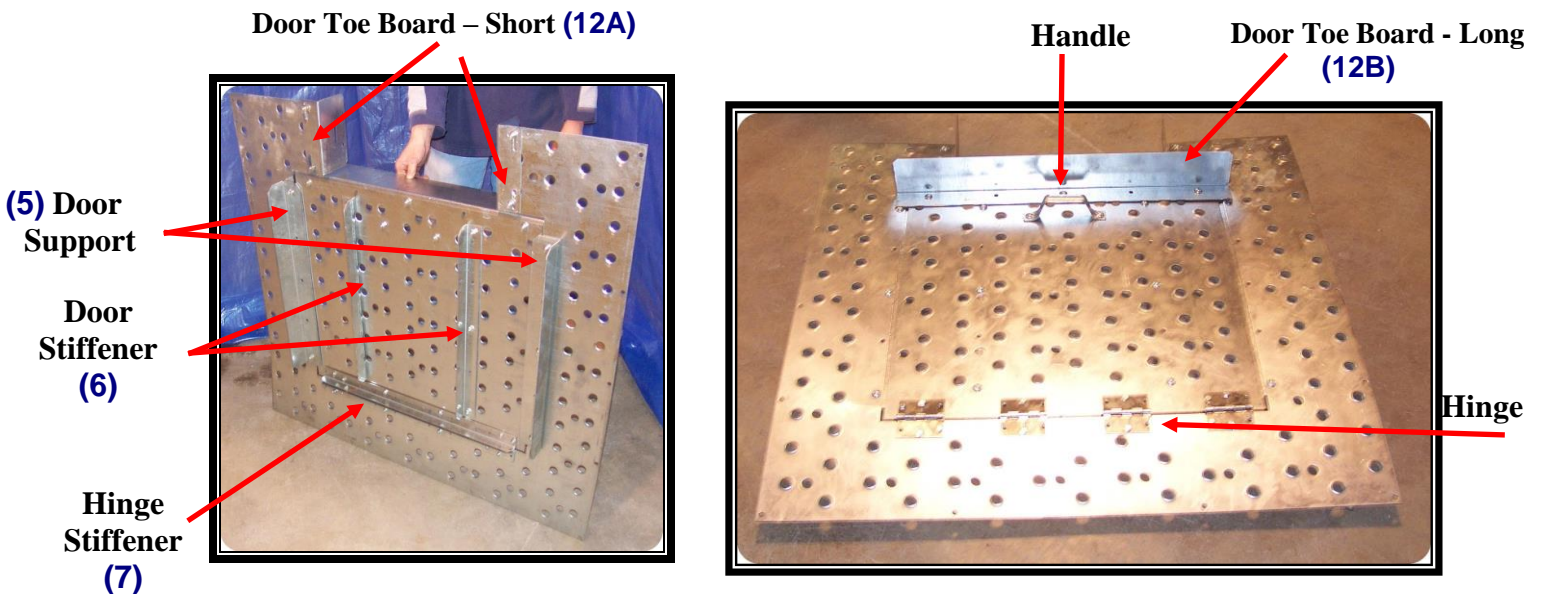
Step:

1. With the head section sitting on a level solid area, start by assembling the (2) main channels and the (2) motor mount channels to the bottom flanges of the head using $\frac{5}{16}$ " X $\frac{3}{4}$ " flange head bolts. The motor mounts may also be placed in position at this step but do not yet bolt.

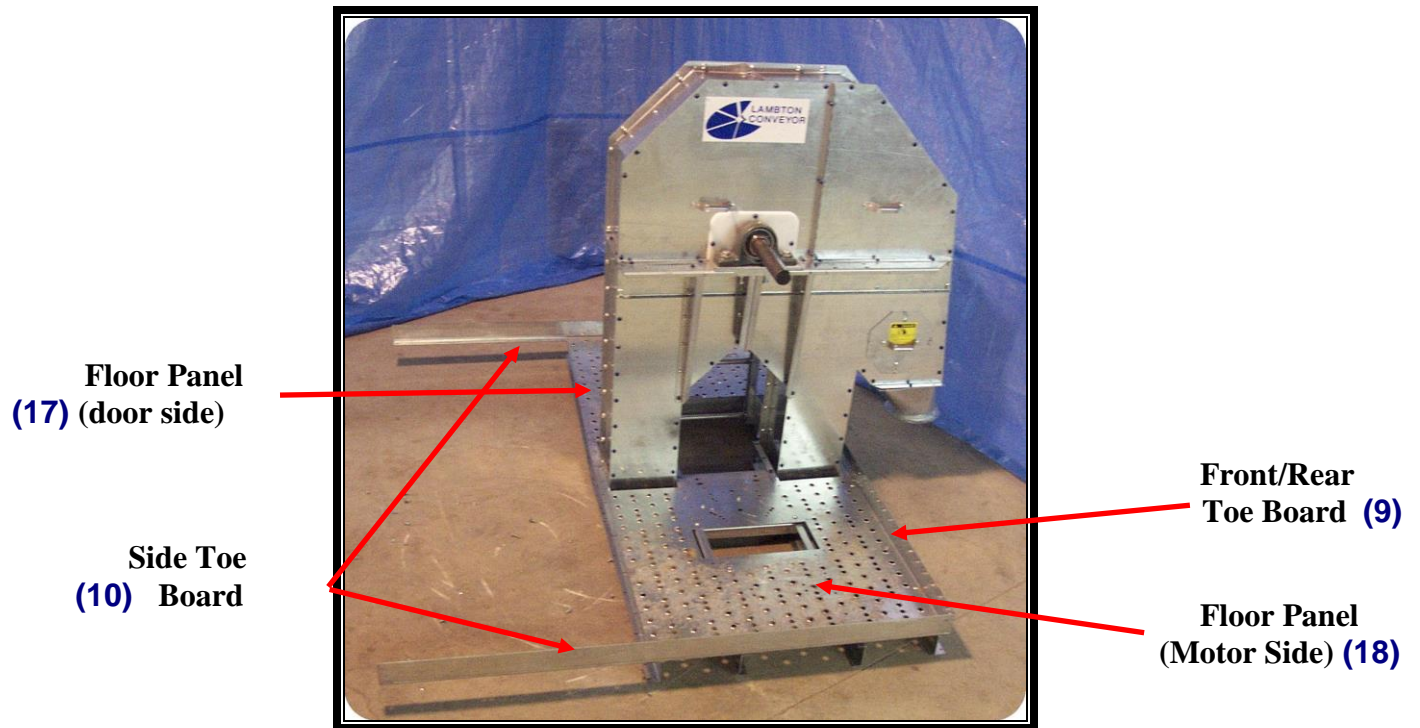


NOTE The picture above shows a double motor mount arrangement. For a single motor mount the outer mount will be absent. The above picture also shows the motor mounts bolted into position. Do not bolt until the floor panels are in place.

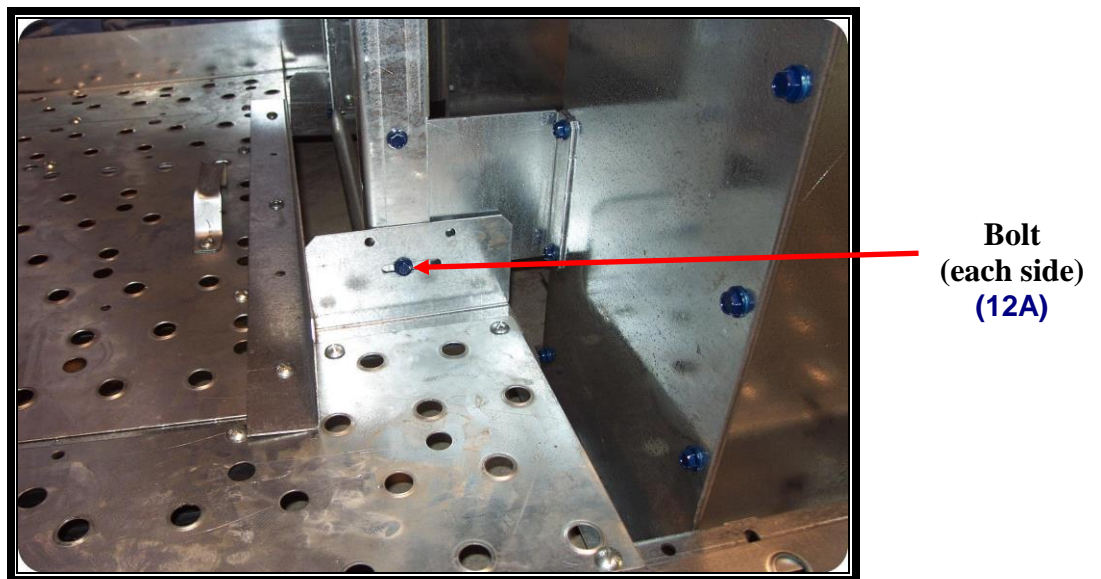
2. Next locate the door panel, (2) hinge stiffeners, (2) door supports, (2) door stiffeners, (1) handle, (2) door toe board – short and (1) door toe board – long. All parts will be bolted to the underside of the door panel except for the (1) door toe board – long (1) handle and (4) hinges, which bolt on the topside. All parts require $\frac{5}{16}$ " X $\frac{3}{4}$ " button head bolts. The hinges and hinge stiffeners require $\frac{1}{4}$ " X 1" bolts.



3. Now place the (2) side toe boards, (1) floor panel (motor side) (1) door panel, and (1) of the front/rear toe boards on top of the main channels and bolt using $\frac{5}{16}$ " X $\frac{3}{4}$ " button head bolts. Be sure the bottom edges of the toe boards are bolted beneath the floor panels. ***NOTE*** the bolts for the motor mount(s) also need to be installed in this step.

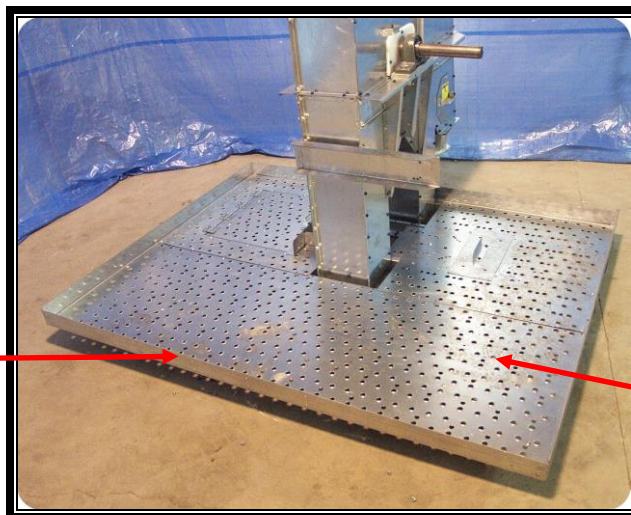


4. Bolt the (2) door toe boards – (short) to the ladder mounted on the head using the existing $\frac{5}{16}$ " X $\frac{3}{4}$ " flange bolt.



5. Now bolt the floor panel (rear) using $\frac{5}{16}$ " X $\frac{3}{4}$ " button head bolts.

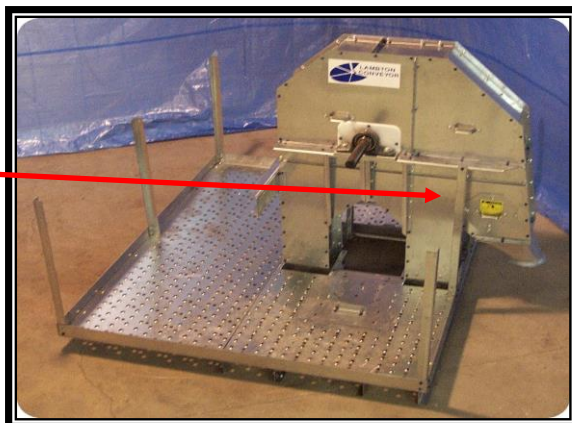
**Front/Rear
(19) Toe Board**



**Floor Panel
(rear)**

6. Now install the (7) railposts and all handrails as shown below using $\frac{5}{16}$ " X $\frac{3}{4}$ " flange head bolts.

**Bolt this rail
post to head
(each side)**



For stability, be sure the (2) rail post at the discharge side of the head are bolted to the main bearing channels.

Bolt (each side)

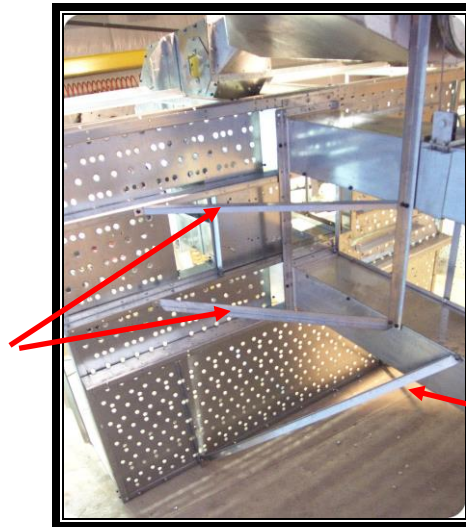


7. With all bolts in the platform tight, the head and platform needs to be tipped back and attached to a piece of trunking so the kick braces may be installed.



8. Locate the (2) platform kick braces and attach one end to the trunking at the fourth set of hemlock bolts below the bottom of the head. The other end gets bolted to the rear toe board at the fourth hole from the end. Now find the (2) motor mount kick braces. Attach one end to the trunking at the third set of holes below the bottom of the head. The other end gets bolted to the bottom of the motor mount channels at the fourth hole from the end.

**Motor Mount
Kick Braces
(4)**



**Platform
Kick Braces
(3)**

9. Your platform is now complete and should resemble the picture below.

