

Platform Manual

16" 9X5



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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

16" Standard Rest Platform

Please read through all directions carefully before beginning the assembly of the platform. The platform is designed to be built on either side of the trunk (depending on where the ladder is). Due to this, the pictures enclosed may not be an exact representation of your specific application. The platform itself can be assembled on either side of the door, depending on your space requirements or personal preference. The Parts list numbers each part and is referred to by these numbers throughout the assembly instructions.

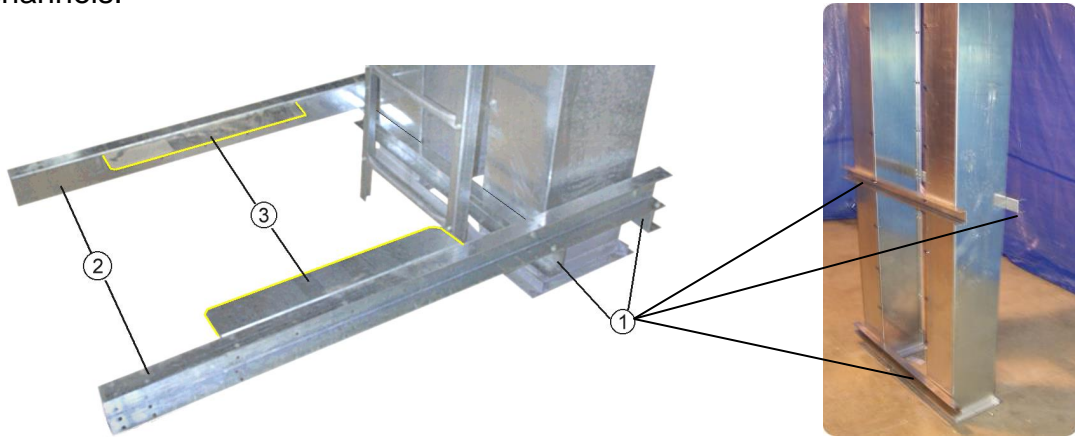
Parts List Information

Ref #	Description	Length	Width	Height	Gauge	Quantity	Part #
1	Primary support C-channel	39	2	3	10	3	Urestp16.000
2	Secondary support C-channel	60 ¼	2	4	10	2	Urestp16.001
3	Door support angle	24	2	4	10	2	Uservp16.003
4	Floor panel/door frame	43 ¼	37	--	14	1	Uservp16.010-2
5	Long toe board	59 ¾	1 ½	4	10	2	Urestp16.002
6	Short toe board	43 13/16	1 ½	4	10	2	Urestp16.003
7	Ladder toe board	7 ¾	2 ¼	4	14	2	Uservp16.008-1
8	Rest floor panel	43 ¼	21 ½	--	14	1	Urestp16.005
9	Small panel stiffener	19 1/8	2	2	14	1	Urestp16.006
10	Floor/door panel	28 ½	26 ¾	--	14	1	Uservp16.010-1
11	Door toe board	31	2 ¼	4	14	1	Uservp16.008-2
12	Door stiffener	23	1 ½	1 ½	10	2	Uservp16.004
13	Hinge stiffener	26 ¾	1 ½	1	10	2	Uservp16.005
14	Railing Post	42	2	2	10	4	Uservp16.018
15	Short hand rail	44 1/8	1 ½	1 ½	10	4	Urestp16.007
16	Long hand rail	60	1 ½	1 ½	10	4	Urestp16.008
17	Kick brace	66 7/8	1 ½	1 ½	14	2	Urestp16.009
	Hex Bolt	¾	5/16	---	---	60	
	Truss slot (button head) bolt	¾	5/16	---	---	65	
	Hex nut	---	5/16	---	---	125	
	Hinge kit	---	---	---	---	1	

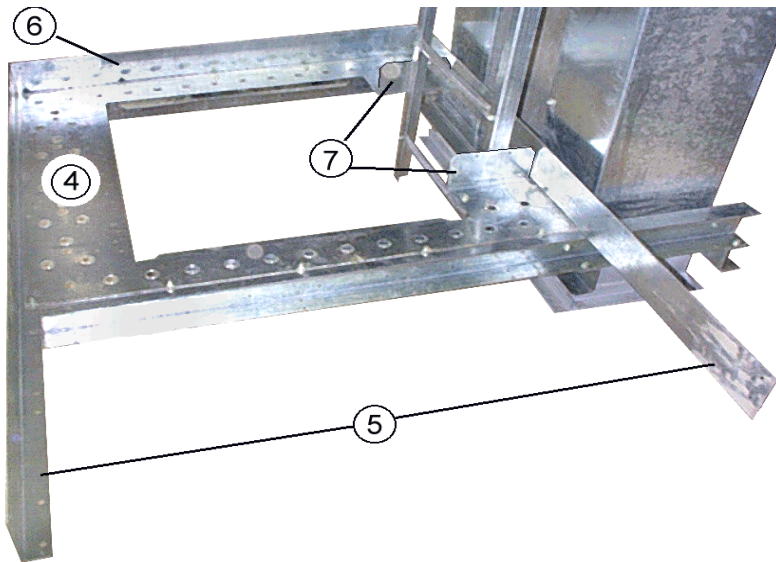
NOTES: Use truss slot bolts for all floor panel connections.

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

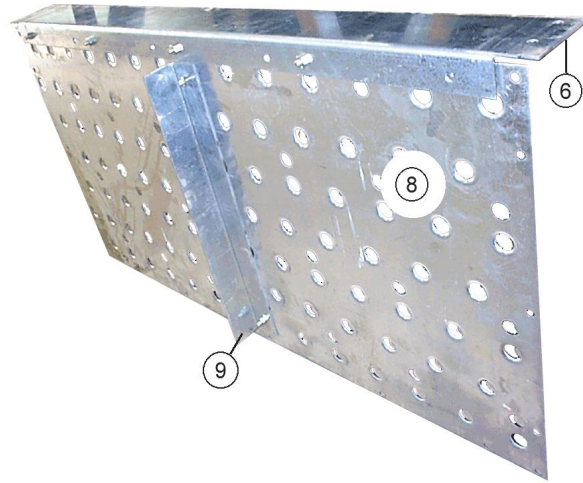
- 1/ Bolt two primary support C-channels **(1)** to the outside of the trunking as in the picture on the left. This will require removal of two hem locking bolts on each side and then re-bolting them. The third primary support shown in the picture on the right will be added later, ignore it for now. Bolt the two secondary support C-channels **(2)** to the top of the two primary support C-channels **(1)**. Bolt the two 24 1/4 @ floor/door support angles **(3)** to the inside of the two secondary support C-channels **(2)** in the door area. These should be mounted flush with the tops of the secondary support C-channels.



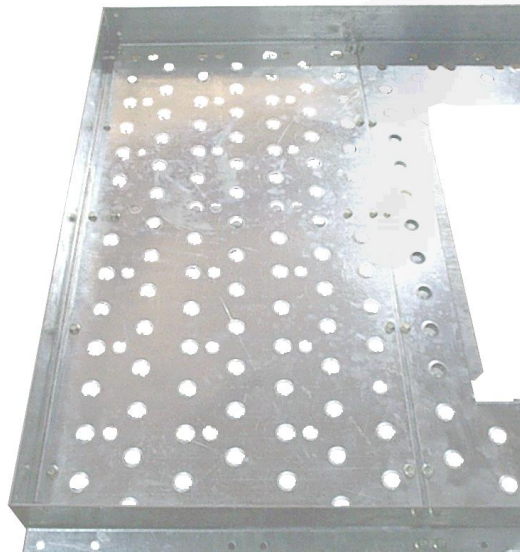
- 2/ Position one 59 3/4" long toe board **(5)** behind the ladder. Position the 43 1/4" x37" floor panel/door frame **(4)**, the 43 7/8" short toe board **(6)**, and the second 59 3/4" long toe board **(5)**. Before bolting down the floor along the ladder edge, position the two 7 3/4" ladder toe boards **(7)**. Once in place, bolt these to the ladder channel uprights. Bolt down the floor panel and all toe boards.



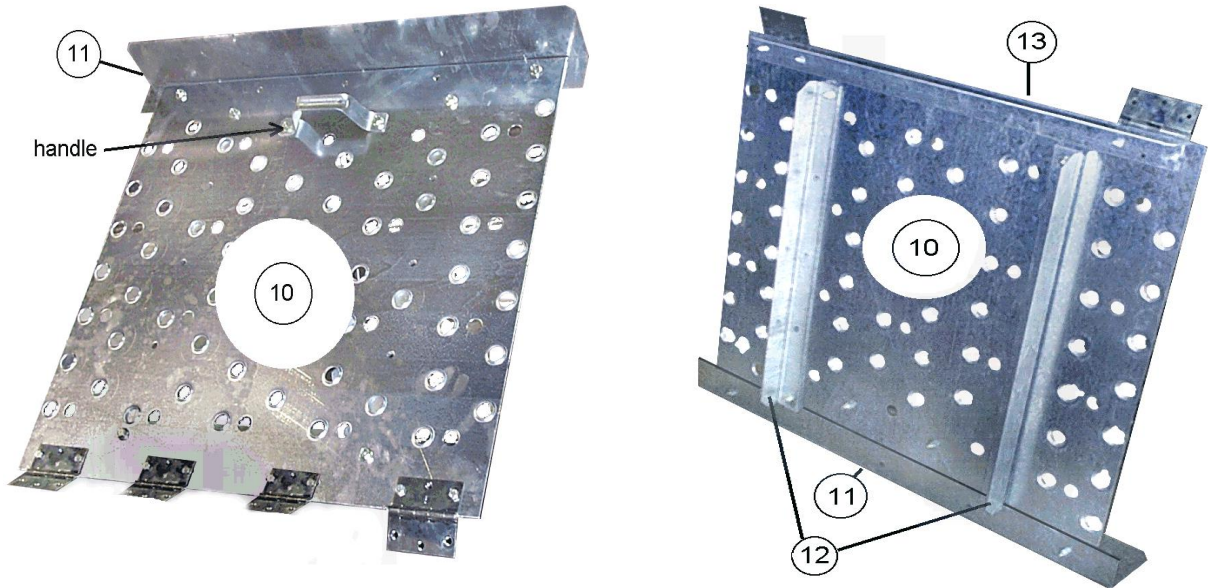
- 3/ Assemble the 43 1/4" x21 1/2" rest floor panel **(8)**. On the underside of the panel, bolt the second 43 7/8" short toe board **(6)**, and the 19 1/8" rest floor panel stiffener **(9)**.



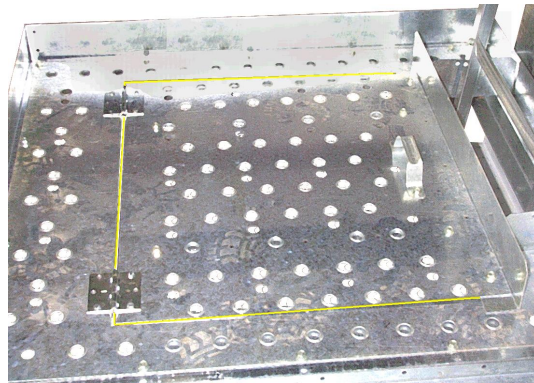
- 4/ Install the rest floor panel assembly. Position it on the long toe boards that are extending past the support channels. Bolt down the floor panel.



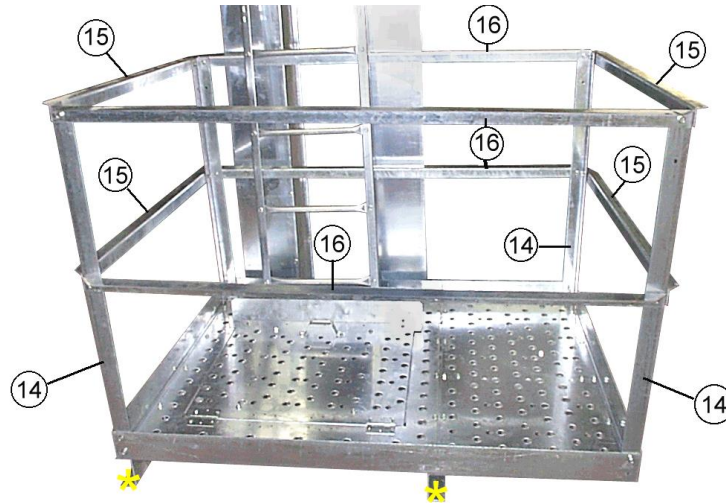
- 5/ Assemble the 28 ½"x26 ¾" floor/door panel (10). Bolt on the 31" door toe board (11), two 23" floor/door supports (12), the handle, 26 ⅜" hinge stiffener (13), and the four hinges. Use the hardware provided with the hinges and handle to bolt them down. Hinges go on top of door; bolt hinge, door and hinge stiffener together.



- 6/ Position door assembly in floor/door frame. Bolt the hinges down through the floor. Install the second 26 ⅜" hinge stiffener (13) to the underside before installing the nuts on the hinge bolts.



- 7/ Bolt the four 42" railing uprights (14) in all four corners of the platform. To the uprights, bolt the 44 1/8" short hand rails (15), on either side of the platform, and bolt the 60" long hand rails (16), behind the ladder and at the front of the platform. The angle on the handrails face out and the rounded edge faces in.



NOTE: At the position noted (*), bolt on the 66-7/8" kick braces (17) and extend them down. Where the kick braces meet the trunk below, bolt on the remaining primary support C-channel (1). This will require removing and re-bolting two hem lock bolts from the trunk, as before. Bolt the kick braces to the ends of the channel. This extra channel is required to spread the kick braces apart giving more clearance for the ladder.





Owners Installation Manual

16" 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- $\frac{1}{2}$ "X1 $\frac{1}{2}$ " 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.



Floor Panel

Kick Brace

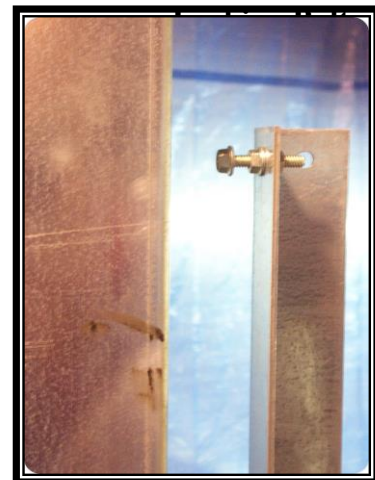
Step #3

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 of 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

16" Large Work Platform

Please read through all directions carefully before beginning the assembly of the platform. The platform is designed to be built on either side of the trunk (depending on where the ladder is). Due to this, the pictures enclosed may not be an exact representation of your specific application. The platform should be assembled on the distributor side of trunk approximately 6' below distributor. The Parts list includes part numbers and is referred to throughout the assembly instructions.

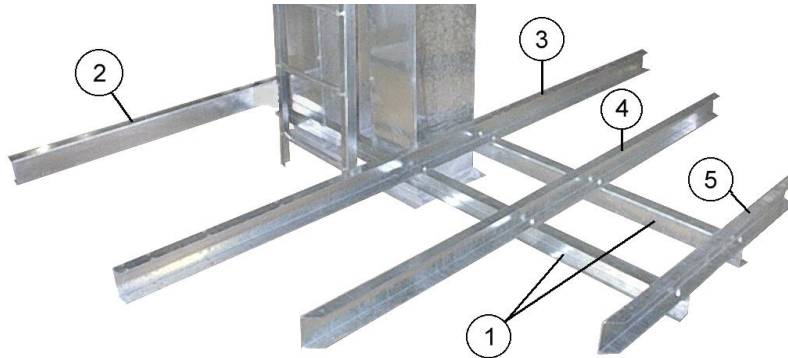
Parts List Information

Ref #	Description	Length	Width	Height	Gauge	Quantity	Part #
1	Primary support C-channel	79	2	3	10	2	uworkp16.000
2	Back secondary support	60 ¼	2	4	10	1	urestp16.001
3	Rear secondary support	104	2	4	10	1	uworkp16.001
4	Middle secondary support	83 7/8	2	4	10	1	uworkp16.002
5	Front secondary support	43 3/8	2	4	10	1	uworkp16.003
6	Floor/door support	24 ½	2	4	14	2	uservp16.003
7	Rear ladder toe board	37 ½	1 ½	4	14	1	uworkp16.010
8	Floor panel/door frame	43 ¼	37	--	14	1	uservp16.010-2
9	Door-side toe board	43 13/16	1 ½	4	10	1	urestp16.003
10	Door-front toe board	46 11/16	1 ½	4	14	1	uworkp16.009
11	Ladder toe board	7 ¾	2 ¼	4	14	2	uservp16.008-1
12	Floor/door panel	28 ½	26 ¾	--	14	1	uservp16.010-1
13	Door toe board	31	2 ¼	4	14	1	uservp16.008-2
14	Floor/door support	23	1 ½	1 ½	10	2	uservp16.004
15	Hinge stiffener	26 ¾	1 ½	1	10	2	uservp16.005
16	Work area floor panel	102 ½	40 3/8	--	14	1	uworkp16.004
17	Rear work area toe board	59 7/8	1 ½	4	14	1	uworkp16.008
18	Front angle toe board	45 3/16	1 ½	4	10	2	uworkp16.007
19	Front work area toe board	40 1/16	1 ½	4	14	1	uworkp16.006-2
19a	Short work area toe board	9 7/16	1 ½	4	14	1	uworkp16.006-1
20	Railing up-right	42	2	2	10	8	uworkp16.005
21	Door-side hand rail	44 1/8	1 ½	1 ½	10	2	uworkp16.017
22	Rear work area hand rail	60	1 ½	1 ½	10	2	uworkp16.014
23	Short work area hand rail	9 ¼	1 ½	1 ½	10	2	uworkp16.012
24	Front angle hand rail	44 15/16	1 ½	1 ½	10	4	uworkp16.011
25	Front work area hand rail	39 7/8	1 ½	1 ½	10	2	uworkp16.013
26	Door-front hand rail	46 7/16	1 ½	1 ½	10	2	uworkp16.016
27	Rear ladder hand rail	36 ¾	1 ½	1 ½	10	2	uworkp16.015
28	Kick brace	71 7/16	1 ½	1 ½	10	2	uworkp16.018
	Hex bolts	¾	5/16	---	---	90	
	Truss slot (button head) bolts	¾	5/16	---	---	90	
	Hex nuts	---	---	---	---	180	
	Hinge kit	---	---	---	---	1	

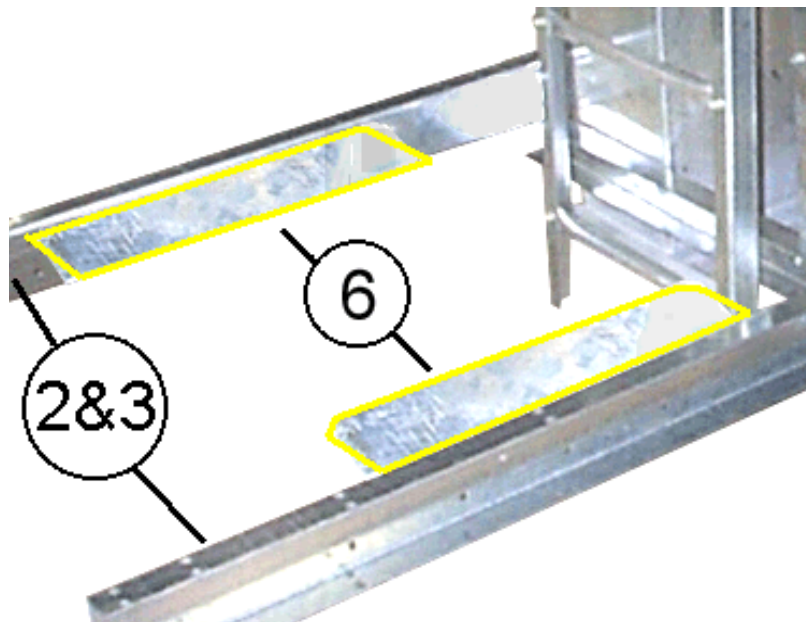
NOTE: Use truss slot bolts for all floor panel connections.

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

1) Bolt two 79" primary support C-channels (**1**) to outside of trunking. This will require removal of two hem locking bolts on each side and then re-bolting them. Bolt to these primary C-channels, the 60 ¼" back secondary support C-channel (**2**), the 104" rear secondary support C-channel, the 83 7/8" middle secondary support C-channel, and the 43 3/8" front secondary support C-channel.

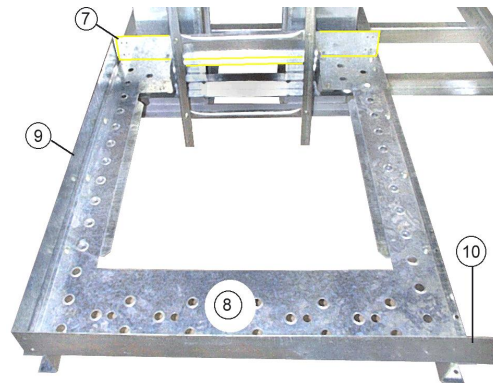


2) Bolt to the insides of the support C-channels (**2 & 3**) the two 24 ½" floor/door supports. Mount these supports flush with the top of the C-channels.

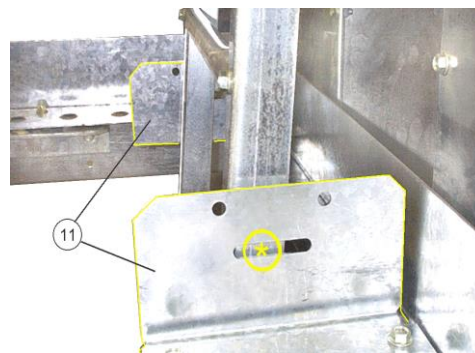
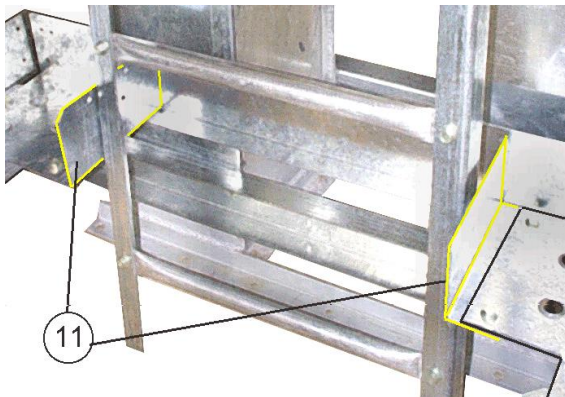


NOTE: 2 or 3 could be on either side of ladder, depending on your specific application. In either case, position floor/door supports as shown.

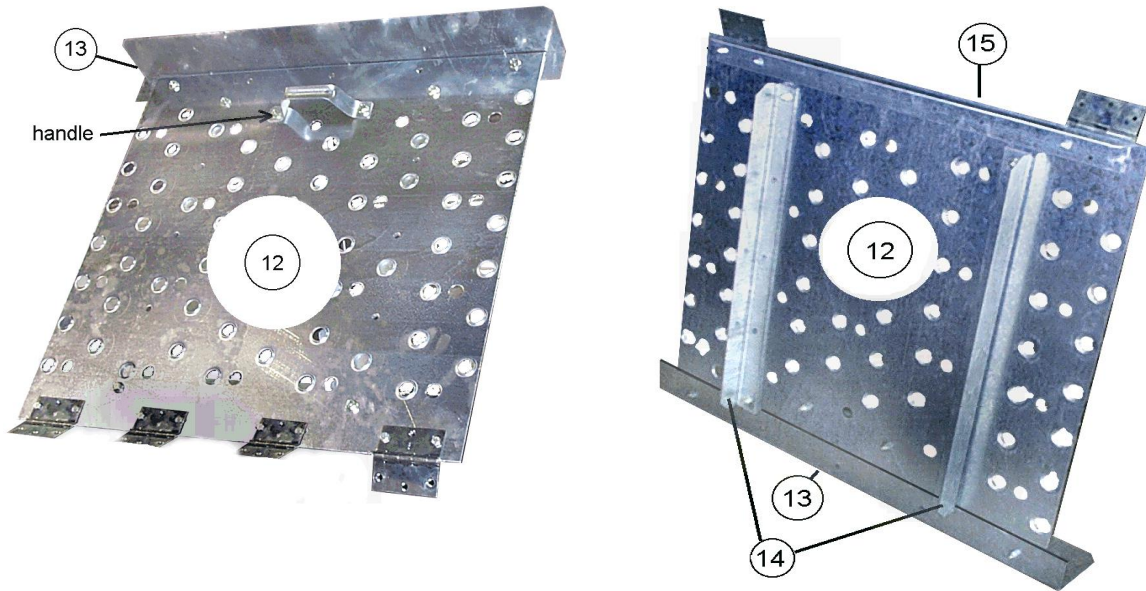
3) Position the 37½ @ rear ladder toe board **(7)** behind the ladder (no bolts yet). Position the 43 ¼"x 37" **(8)** floor panel/door frame (no bolts yet). Position the 43 ¾@ door-side toe board **(9)** and the 46 ⅜" door-front toe board **(10)**. Orientate the toe boards so that they are on top of the C-channels, but under the floor. Bolt down the floor panel/door frame.



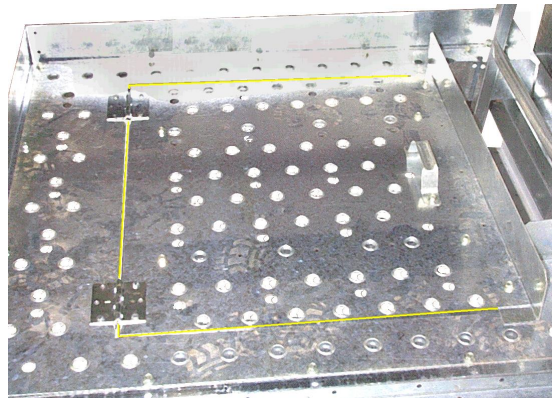
4) Position the two 7 ¾" ladder toe boards **(11)** under the floor panel but on top of the rear ladder toe board. Bolt through the ladder toe board into the ladder channel upright (ρ) (this may require drilling a hole in the ladder channel). Bolt the ladder toe board to the floor.



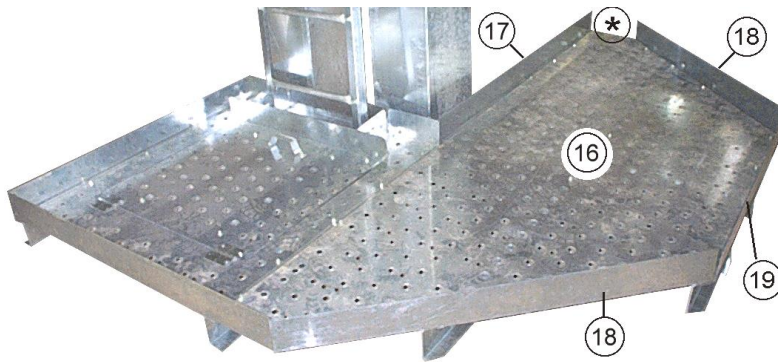
5) Assemble the 28 ½"x26 ¾" floor/door panel **(12)**. Bolt on the 31" door toe board **(13)**, two 23" floor/door supports **(14)**, handle, 26 ¾" hinge stiffener **(15)**, and the four hinges. Use the hardware provided with the hinges and handle to bolt them down. Hinges go on top of door; bolt hinge, door and hinge stiffener together.



6) Position door assembly in floor/door frame. Bolt the hinges down through the floor. Install the second 26 ¾" hinge stiffener **(15)** to the underside before installing the nuts on the hinge bolts.

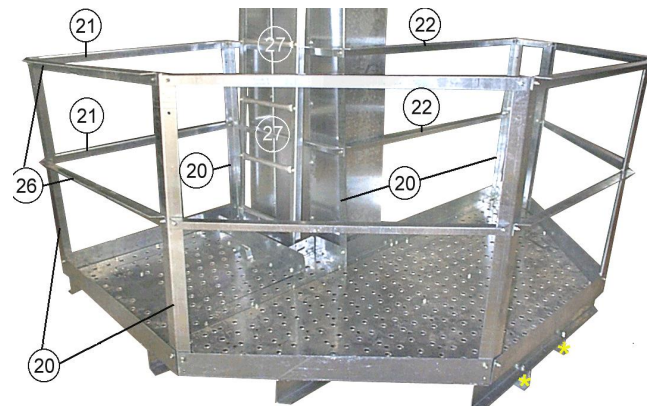
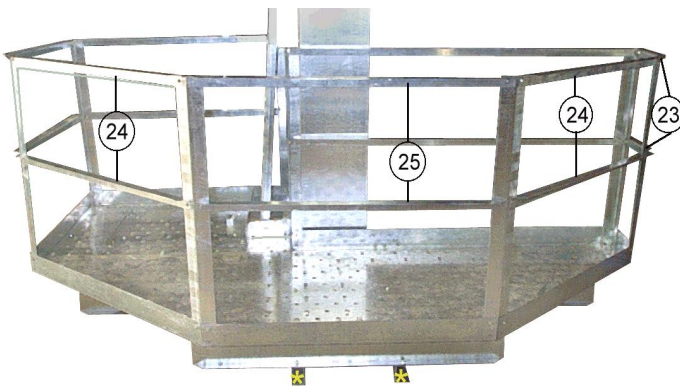


7) Position the 102 ½"x40 3/8" work area floor panel **(16)** on the supporting C- channels. Around the perimeter (under the floor panel on top of C-channel) position the 59 7/8" rear work area toe board **(17)**, the two 45 1/8" front angle toe boards **(18)**, and the 40 1/8" front work area toe board **(19)**. Bolt down the floor panel on all edges. **(ρ)** Now the 7 ¾" short work area toe board (part list #19a) may be bolted in.



8) 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 44 1/8" door-side handrails **(21)**, two 60" rear work area handrails **(22)**, two 9 ¼" short work area handrails **(23)**, four 44 7/8" front angle handrails **(24)**, two 39 7/8" front work area handrails **(25)**, two 46 3/8" door-front hand-rails **(26)**, and two 36 ¾" rear ladder handrails **(27)**.

(*) Bolt the 71 3/8" kick braces to main support C-channels at positions marked extend them down and bolt ends to trunk below.





Owners Installation Manual

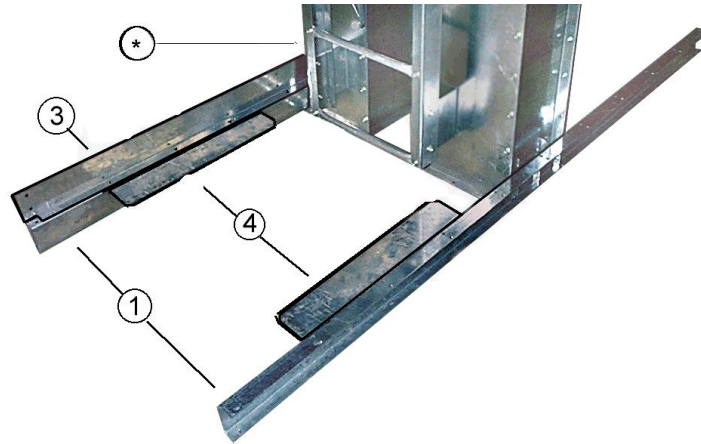
16" Head Service Platform

Please read through all directions carefully before attempting platform assembly. The process that follows may not be an exact representation of your application, in such cases use these instructions as merely a guideline. Assemble the platform so the larger service area is on the motor side of the head assembly. Below is a list outlining all parts used during the assembly process. These parts are referred to by numbers. Clarifying the part that is required by referring to the parts list is recommended to prevent misapplication.

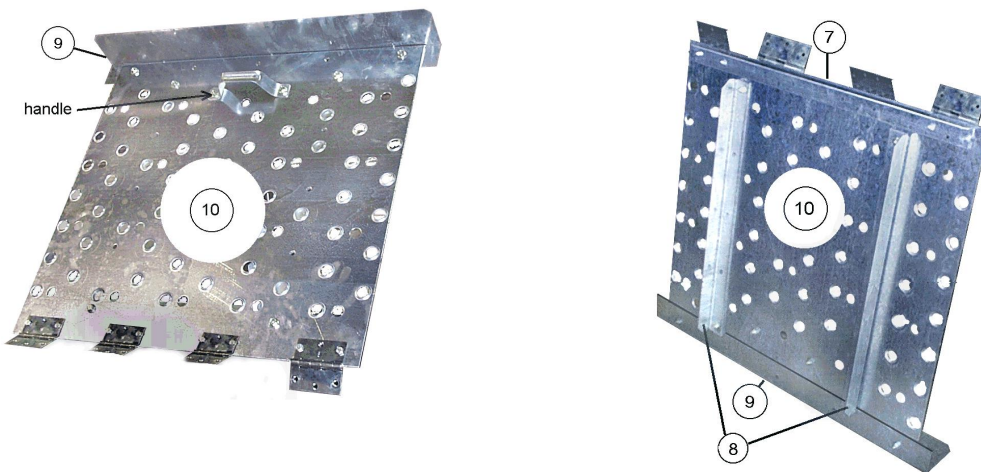
PARTS LIST INFORMATION							
Ref #	Description	Length (")	Width (")	Height (")	Gauge	Quantity	Part #
1	Main support c-channel	100 ½	1 ½	4	10	2	Uservp16.000
2	Side toe board	75 ¼	1 ½	4	10	2	Uservp16.001
3	Front/rear toe board	100 ½	1 ½	4	10	2	Uservp16.002
4	Door stop	24 ¼	2	4	10	2	Uservp16.003
5	Rear floor support	37 ¼	2	2	14	2	Uservp16.007
6	Rear floor panel	99 ½	37	---	14	1	Uservp16.011
7	Hinge support	26 3/8	1 ½	1	10	2	Uservp16.005
8	Floor/door support	23	1 ½	1 ½	10	2	Uservp16.004
9	Door toe board	31	2 ¼	4	14	1	Userp16.008-2
10	Floor/door panel	28 ½	26 ¾	---	14	1	Uservp16.010-1
11	Handle for door	---	---	---	---	1	GLA-HANDLE
12	Ladder toe board	7 ¾	2 ¼	4	14	2	Uservp16.008-1
13	Floor panel/door frame	43 ¼	37	---	14	1	Uservp16.010-2
14	Drive side floor support	42	2	2	14	1	Uservp16.006
15	Drive side floor panel	40	37	---	14	1	Uservp16.009
16	Railing upright	42	2	2	10	7	Uservp16.014
17	Front hand rail	40	1 ½	1 ½	10	4	Uservp16.017
18	Side hand rail	75	1 ½	1 ½	10	4	Uservp16.015
19	Rear hand rail	100 ½	1 ½	1 ½	10	2	Uservp16.016
20	Kick brace	73 ¼	1 ½	1 ½	10	2	Uservp16.013
21	Drive side toe board	34 7/8	1 ½	4	14	1	Uservp16.012
	Button head bolt	3/4	5/16			90	
	Hex Bolt	3/4	5/16	---		80	
	Hex nut	---	5/16	---	---	170	
	Hinge kit (includes handle, 4 hinges & all necessary hardware)					1	GLA-HINGE KIT

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

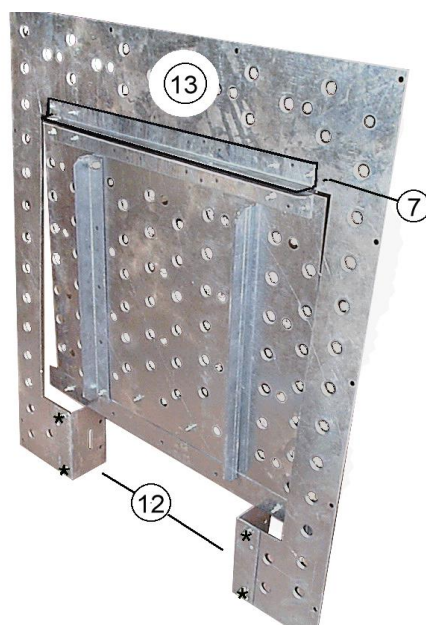
1) Bolt the two 100 ½" main support c-channels (1) on top of bottom outside lip of the head assembly. Bolt to these c-channels the two 24 ¼" door stops (4). Bolt these flush with the top of the c-channel. Using only the center hole (* located in middle of trunk), bolt down the 100 ½" front/rear toe board (3). The other toe board holes are left empty for installing the floor panel.



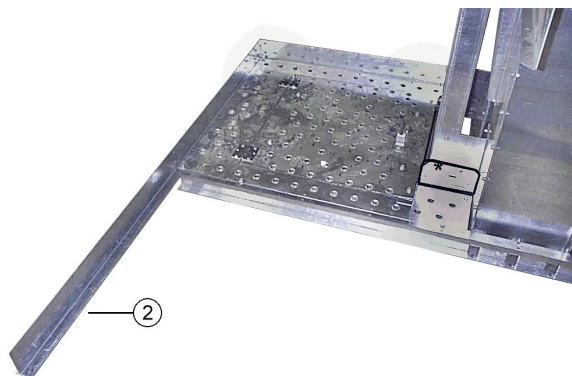
2) Assemble the 28-½"x26 ¾" platform door panel (10). Bolt on the 31" door toe board (9), two 23" floor/door supports (8), the handle, the 26 3/8" hinge stiffener (7), and the four hinges. Use the hinge kit hardware to bolt down the hinges and the handle. Hinges go on top of door panel stiffener goes underneath.



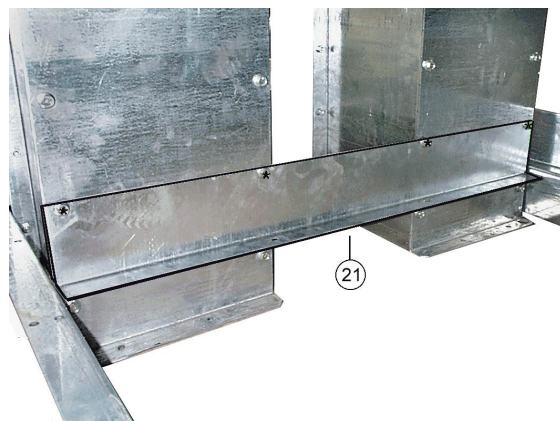
3) Assemble the 43-1/4"x37" floor panel – door frame (13) that goes around the door. Bolt on the two 7 3/4" ladder toe boards (12). Leave the bolts only hand tight (*). Attach the 26 3/8" hinge stiffener (7) to the underside of flooring before putting the nuts on the hinge bolts.



4) Install the floor/door assembly. Remove the lower bolts on either side of the ladder channel and bolt through the ladder toe boards into the ladder (*). Tighten the ladder toe board bolts that were left loose in the previous step. Install the 75 1/4" side toe board (2) along the outer edge, with lip under floor. Bolt down the floor.



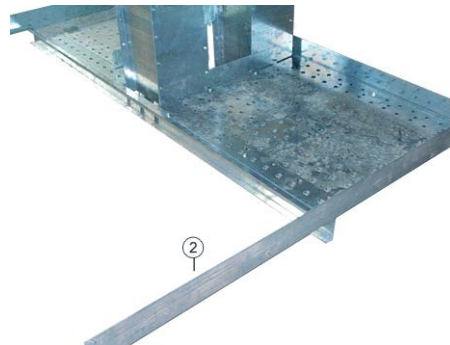
5) Remove the (second from the bottom lip of head unit) set of bolts (*). Attach the 34 7/8" drive side toe board (21). Replace the bolts and tighten.



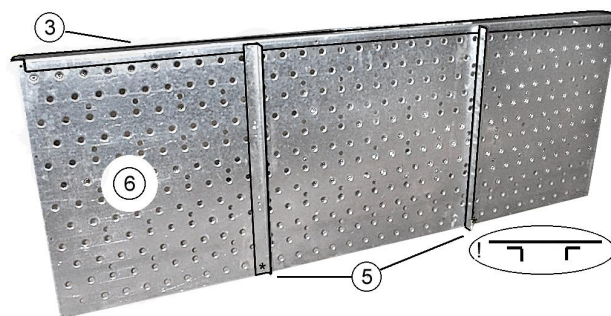
6) Bolt the 42" drive side floor support (14) to the underside of the 40"x37" drive side floor panel (15).



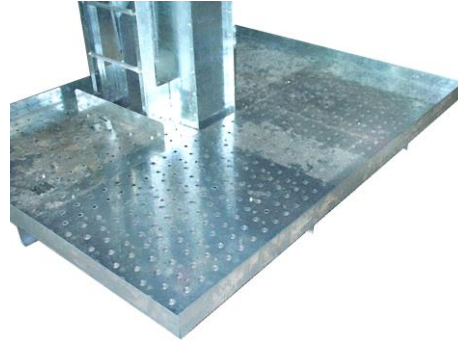
7) Bolt the rear floor panel and the 75 ¼" side toe board (2) to the main c-channels. Toe board lip goes under the floor before bolting.



8) Bolt the 100 ½" front/rear toe board (3) to the underside of the 99 ½" x 37" rear floor panel (6). Bolt two 37 ¼" rear floor supports (5) to the underside as shown in the bubble caption (!). Leave the floor support bolts loose and the holes (noted *) empty. This will make installing the floor panel easier.



9) Install the rear floor panel. The panel will go on top of the main c-channels and the floor supports will go under the lip of the same c-channel. Once in place, bolt down all edges and tighten all bolts (i.e. floor support bolts from previous step).



10) Install the 42" railing uprights (16) on the outside of the toe boards. Bolt handrails as follows: (17) - 40" front of platform, (18) - 75" platform sides (19) - 100 1/2" rear of platform. Handrails should have the rounded edge facing inward.

