

Pareto

Aluminum Systems



www.paretoas.com

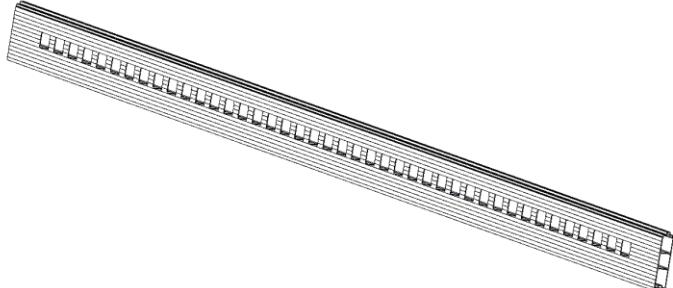
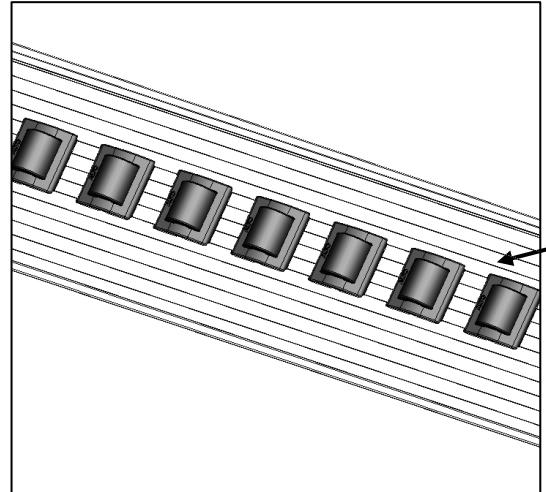
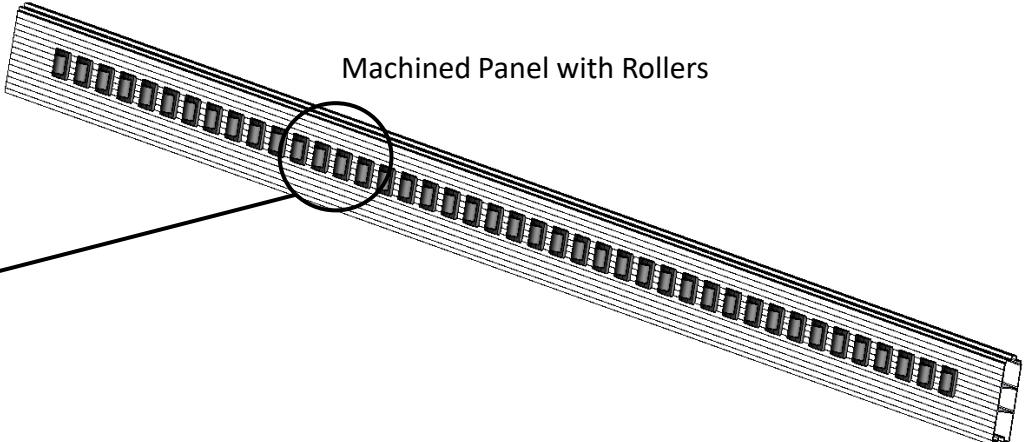
WB_148 & WB_148_EL –
Mover Kit - Installation Guide

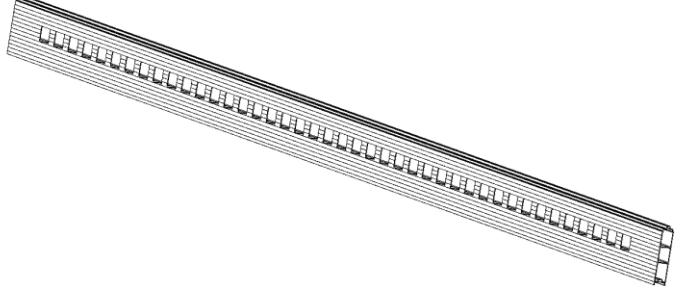
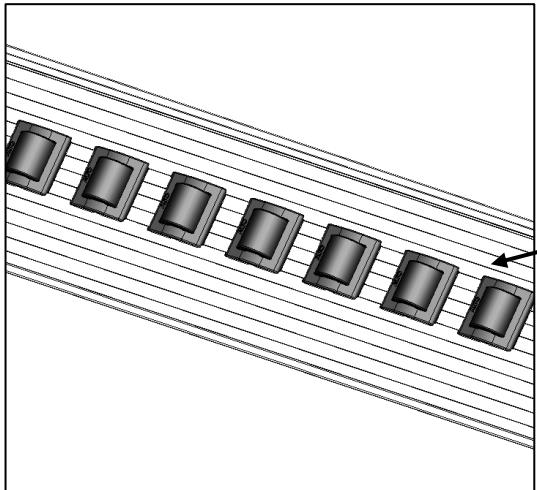
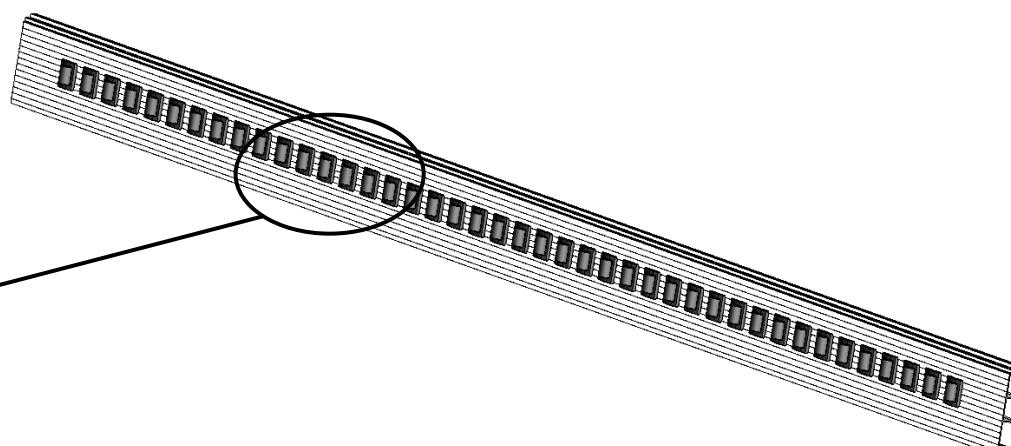
#	Description	Picture	#	Description	Pictures
1	9/16" Drive Head for 3/8" Bolt				
2	Standard 3/8" Drill Bit Special 3/8" x 8" Drill Bit				
3	Drill Drive				

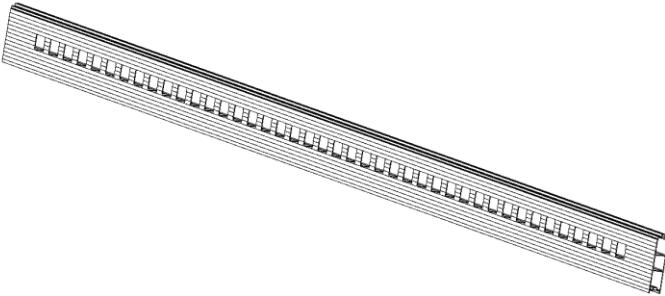
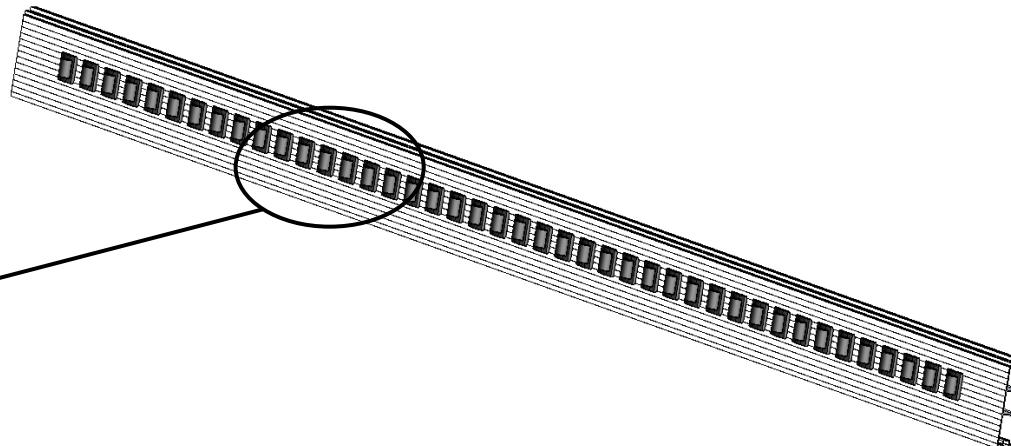
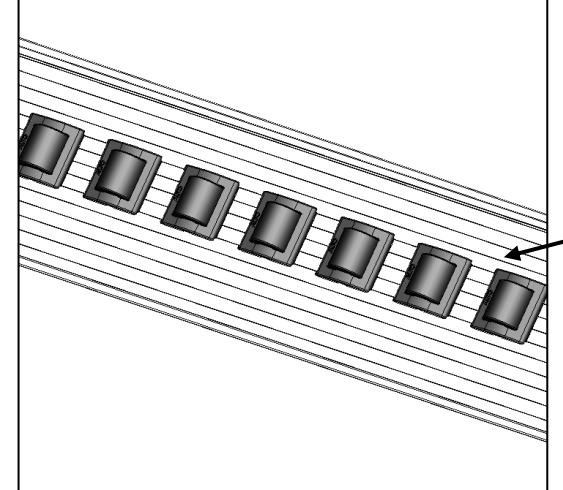
#	Install Step	Description of the steps	Pictures																																				
1	Unbox the Crate and Check the materials availability as per BOM	<ul style="list-style-type: none"> Check all panels availability as per the kit BOM available on the website. https://paretoas.com/alfo-kits/ Each panel has a unique part # printed on the label. <p>BOM for WB 148 Mover Kit</p>	<table border="1"> <thead> <tr> <th>List of Items</th> <th>No. of Item</th> </tr> </thead> <tbody> <tr> <td>Track Panel Mid – B2-12-013A</td> <td>2</td> </tr> <tr> <td>No Track Panel Mid – B2-12-014A</td> <td>1</td> </tr> <tr> <td>No Track Panel – B2-12-016A</td> <td>4</td> </tr> <tr> <td>No Track Panel Passenger side – B2-12-028A</td> <td>1</td> </tr> <tr> <td>No Track Panel Driver side – B2-12-029A</td> <td>1</td> </tr> <tr> <td>Forklift Angle Front & Rear – B1-12-018A</td> <td>2</td> </tr> <tr> <td>Forklift Angle front RH – B1-12-020A</td> <td>1</td> </tr> <tr> <td>Angle Front LH & Angle Rear RH – B1-12-024A</td> <td>2</td> </tr> <tr> <td>Angle Mid – B1-12-021A</td> <td>2</td> </tr> <tr> <td>Angle Rear LH – B1-12-023A</td> <td>1</td> </tr> <tr> <td>Assembly KK Wheel Scale</td> <td>126</td> </tr> <tr> <td>Hex Bolt, Zinc Plated Steel Grade 10.9, M10x140mm</td> <td>6</td> </tr> <tr> <td>Reinforcement Plate</td> <td>6</td> </tr> <tr> <td>Medium Strength Steel M10 Nylock Nut</td> <td>6</td> </tr> <tr> <td>M10 - Plain Washer</td> <td>28</td> </tr> <tr> <td>M10x20 mm – Button Head Socket Head Screw</td> <td>22</td> </tr> <tr> <td>M8x20 mm – Self Tapping Thread Forming Screw for Soft Material</td> <td>17</td> </tr> </tbody> </table>	List of Items	No. of Item	Track Panel Mid – B2-12-013A	2	No Track Panel Mid – B2-12-014A	1	No Track Panel – B2-12-016A	4	No Track Panel Passenger side – B2-12-028A	1	No Track Panel Driver side – B2-12-029A	1	Forklift Angle Front & Rear – B1-12-018A	2	Forklift Angle front RH – B1-12-020A	1	Angle Front LH & Angle Rear RH – B1-12-024A	2	Angle Mid – B1-12-021A	2	Angle Rear LH – B1-12-023A	1	Assembly KK Wheel Scale	126	Hex Bolt, Zinc Plated Steel Grade 10.9, M10x140mm	6	Reinforcement Plate	6	Medium Strength Steel M10 Nylock Nut	6	M10 - Plain Washer	28	M10x20 mm – Button Head Socket Head Screw	22	M8x20 mm – Self Tapping Thread Forming Screw for Soft Material	17
List of Items	No. of Item																																						
Track Panel Mid – B2-12-013A	2																																						
No Track Panel Mid – B2-12-014A	1																																						
No Track Panel – B2-12-016A	4																																						
No Track Panel Passenger side – B2-12-028A	1																																						
No Track Panel Driver side – B2-12-029A	1																																						
Forklift Angle Front & Rear – B1-12-018A	2																																						
Forklift Angle front RH – B1-12-020A	1																																						
Angle Front LH & Angle Rear RH – B1-12-024A	2																																						
Angle Mid – B1-12-021A	2																																						
Angle Rear LH – B1-12-023A	1																																						
Assembly KK Wheel Scale	126																																						
Hex Bolt, Zinc Plated Steel Grade 10.9, M10x140mm	6																																						
Reinforcement Plate	6																																						
Medium Strength Steel M10 Nylock Nut	6																																						
M10 - Plain Washer	28																																						
M10x20 mm – Button Head Socket Head Screw	22																																						
M8x20 mm – Self Tapping Thread Forming Screw for Soft Material	17																																						

#	Install Step	Description of the steps	Pictures																																				
1	Unbox the Crate and Check the materials availability as per BOM	<ul style="list-style-type: none"> Check all panels availability as per the kit BOM available on the website. https://paretoas.com/alfo-kits/ Each panel has a unique part # printed on the label. <p>BOM for WB 148 EL Mover Kit</p>	<table border="1"> <thead> <tr> <th>List of Items</th> <th>No. of Item</th> </tr> </thead> <tbody> <tr> <td>Track Panel Mid – B2-12-020A</td> <td>2</td> </tr> <tr> <td>No Track Panel Mid – B2-12-018A</td> <td>1</td> </tr> <tr> <td>No Track Panel – B2-12-019A</td> <td>4</td> </tr> <tr> <td>No Track Panel Passenger side – B2-12-024A</td> <td>1</td> </tr> <tr> <td>No Track Panel Driver side – B2-12-025A</td> <td>1</td> </tr> <tr> <td>Forklift Angle Front & Rear – B1-12-018A</td> <td>2</td> </tr> <tr> <td>Forklift Angle front RH – B1-12-020A</td> <td>1</td> </tr> <tr> <td>Angle Front LH & Angle Rear RH – B1-12-024A</td> <td>2</td> </tr> <tr> <td>Angle Mid – B1-12-021A</td> <td>2</td> </tr> <tr> <td>Angle Rear LH – B1-12-023A</td> <td>1</td> </tr> <tr> <td>Assembly KK Wheel Scale</td> <td>156</td> </tr> <tr> <td>Hex Bolt, Zinc Plated Steel Grade 10.9, M10x140mm</td> <td>6</td> </tr> <tr> <td>Reinforcement Plate</td> <td>6</td> </tr> <tr> <td>Medium Strength Steel M10 Nylock Nut</td> <td>6</td> </tr> <tr> <td>M10 - Plain Washer</td> <td>28</td> </tr> <tr> <td>M10x20 mm – Button Head Socket Head Screw</td> <td>22</td> </tr> <tr> <td>M8x20 mm – Self Tapping Thread Forming Screw for Soft Material</td> <td>17</td> </tr> </tbody> </table>	List of Items	No. of Item	Track Panel Mid – B2-12-020A	2	No Track Panel Mid – B2-12-018A	1	No Track Panel – B2-12-019A	4	No Track Panel Passenger side – B2-12-024A	1	No Track Panel Driver side – B2-12-025A	1	Forklift Angle Front & Rear – B1-12-018A	2	Forklift Angle front RH – B1-12-020A	1	Angle Front LH & Angle Rear RH – B1-12-024A	2	Angle Mid – B1-12-021A	2	Angle Rear LH – B1-12-023A	1	Assembly KK Wheel Scale	156	Hex Bolt, Zinc Plated Steel Grade 10.9, M10x140mm	6	Reinforcement Plate	6	Medium Strength Steel M10 Nylock Nut	6	M10 - Plain Washer	28	M10x20 mm – Button Head Socket Head Screw	22	M8x20 mm – Self Tapping Thread Forming Screw for Soft Material	17
List of Items	No. of Item																																						
Track Panel Mid – B2-12-020A	2																																						
No Track Panel Mid – B2-12-018A	1																																						
No Track Panel – B2-12-019A	4																																						
No Track Panel Passenger side – B2-12-024A	1																																						
No Track Panel Driver side – B2-12-025A	1																																						
Forklift Angle Front & Rear – B1-12-018A	2																																						
Forklift Angle front RH – B1-12-020A	1																																						
Angle Front LH & Angle Rear RH – B1-12-024A	2																																						
Angle Mid – B1-12-021A	2																																						
Angle Rear LH – B1-12-023A	1																																						
Assembly KK Wheel Scale	156																																						
Hex Bolt, Zinc Plated Steel Grade 10.9, M10x140mm	6																																						
Reinforcement Plate	6																																						
Medium Strength Steel M10 Nylock Nut	6																																						
M10 - Plain Washer	28																																						
M10x20 mm – Button Head Socket Head Screw	22																																						
M8x20 mm – Self Tapping Thread Forming Screw for Soft Material	17																																						

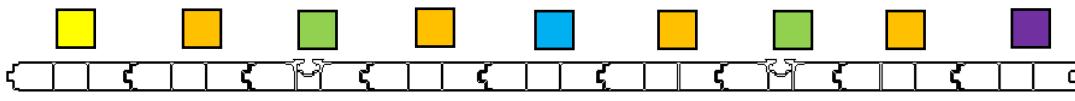
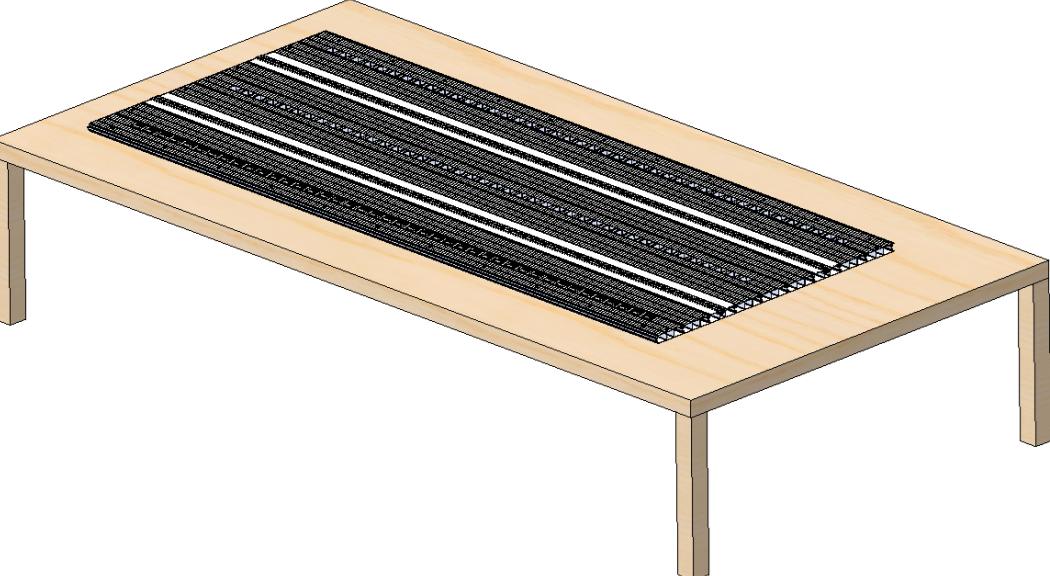
#	Install Step	Description of the steps	Pictures																																				
1	Unbox the Crate and Check the materials availability as per BOM	<ul style="list-style-type: none"> Check all panels availability as per the kit BOM available on the website. https://paretoas.com/alfo-kits/ Each panel has a unique part # printed on the label. <p>BOM for WB 148EL_DRW Mover Kit</p>	<table border="1"> <thead> <tr> <th>List of Items</th> <th>No. of Item</th> </tr> </thead> <tbody> <tr> <td>Track Panel Mid – B2-12-020A</td> <td>2</td> </tr> <tr> <td>No Track Panel Mid – B2-12-018A</td> <td>3</td> </tr> <tr> <td>No Track Panel – B2-12-019A</td> <td>2</td> </tr> <tr> <td>No Track Panel Passenger side – B2-12-026A</td> <td>1</td> </tr> <tr> <td>No Track Panel Driver side – B2-12-027A</td> <td>1</td> </tr> <tr> <td>Forklift Angle Front & Rear – B1-12-018A</td> <td>2</td> </tr> <tr> <td>Forklift Angle front RH – B1-12-020A</td> <td>1</td> </tr> <tr> <td>Angle Front LH & Angle Rear RH – B1-12-024A</td> <td>2</td> </tr> <tr> <td>Angle Mid – B1-12-025A</td> <td>2</td> </tr> <tr> <td>Angle Rear LH – B1-12-023A</td> <td>1</td> </tr> <tr> <td>Assembly KK Wheel Scale</td> <td>156</td> </tr> <tr> <td>Hex Bolt, Zinc Plated Steel Grade 10.9, M10x140mm</td> <td>6</td> </tr> <tr> <td>Reinforcement Plate</td> <td>6</td> </tr> <tr> <td>Medium Strength Steel M10 Nylock Nut</td> <td>6</td> </tr> <tr> <td>M10 - Plain Washer</td> <td>28</td> </tr> <tr> <td>M10x20 mm – Button Head Socket Head Screw</td> <td>22</td> </tr> <tr> <td>M8x20 mm – Self Tapping Thread Forming Screw for Soft Material</td> <td>17</td> </tr> </tbody> </table>	List of Items	No. of Item	Track Panel Mid – B2-12-020A	2	No Track Panel Mid – B2-12-018A	3	No Track Panel – B2-12-019A	2	No Track Panel Passenger side – B2-12-026A	1	No Track Panel Driver side – B2-12-027A	1	Forklift Angle Front & Rear – B1-12-018A	2	Forklift Angle front RH – B1-12-020A	1	Angle Front LH & Angle Rear RH – B1-12-024A	2	Angle Mid – B1-12-025A	2	Angle Rear LH – B1-12-023A	1	Assembly KK Wheel Scale	156	Hex Bolt, Zinc Plated Steel Grade 10.9, M10x140mm	6	Reinforcement Plate	6	Medium Strength Steel M10 Nylock Nut	6	M10 - Plain Washer	28	M10x20 mm – Button Head Socket Head Screw	22	M8x20 mm – Self Tapping Thread Forming Screw for Soft Material	17
List of Items	No. of Item																																						
Track Panel Mid – B2-12-020A	2																																						
No Track Panel Mid – B2-12-018A	3																																						
No Track Panel – B2-12-019A	2																																						
No Track Panel Passenger side – B2-12-026A	1																																						
No Track Panel Driver side – B2-12-027A	1																																						
Forklift Angle Front & Rear – B1-12-018A	2																																						
Forklift Angle front RH – B1-12-020A	1																																						
Angle Front LH & Angle Rear RH – B1-12-024A	2																																						
Angle Mid – B1-12-025A	2																																						
Angle Rear LH – B1-12-023A	1																																						
Assembly KK Wheel Scale	156																																						
Hex Bolt, Zinc Plated Steel Grade 10.9, M10x140mm	6																																						
Reinforcement Plate	6																																						
Medium Strength Steel M10 Nylock Nut	6																																						
M10 - Plain Washer	28																																						
M10x20 mm – Button Head Socket Head Screw	22																																						
M8x20 mm – Self Tapping Thread Forming Screw for Soft Material	17																																						

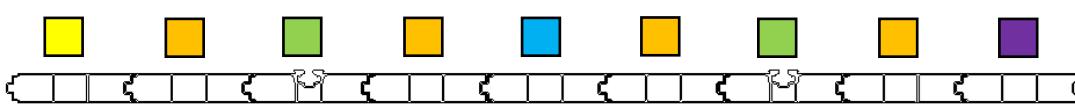
#	Install Step	Description of the steps	Pictures								
2	Fixing Rollers in the Panels. (For WB_148 – Mover Kit Only)	<ul style="list-style-type: none"> After assembling hangers with Panels, Need to Fix the Rollers in their respective machined panels as per the Picture. After Fixing rollers, check the Rolling Condition and ensure all rollers are at the same Level. Rollers to be fixed in these Panels : <table border="0"> <tr> <td>• B2-12-029A</td> <td>- 1 Panel</td> </tr> <tr> <td>• B2-12-014A</td> <td>- 1 Panel</td> </tr> <tr> <td>• B2-12-028A</td> <td>- 1 Panel</td> </tr> <tr> <td>• Roller</td> <td>- 126 No's (42/Panel)</td> </tr> </table> 	• B2-12-029A	- 1 Panel	• B2-12-014A	- 1 Panel	• B2-12-028A	- 1 Panel	• Roller	- 126 No's (42/Panel)	   
• B2-12-029A	- 1 Panel										
• B2-12-014A	- 1 Panel										
• B2-12-028A	- 1 Panel										
• Roller	- 126 No's (42/Panel)										

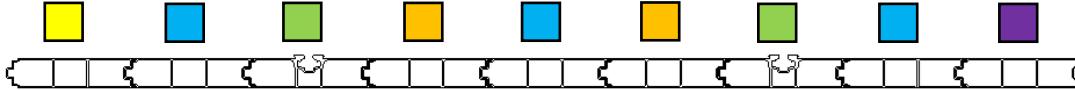
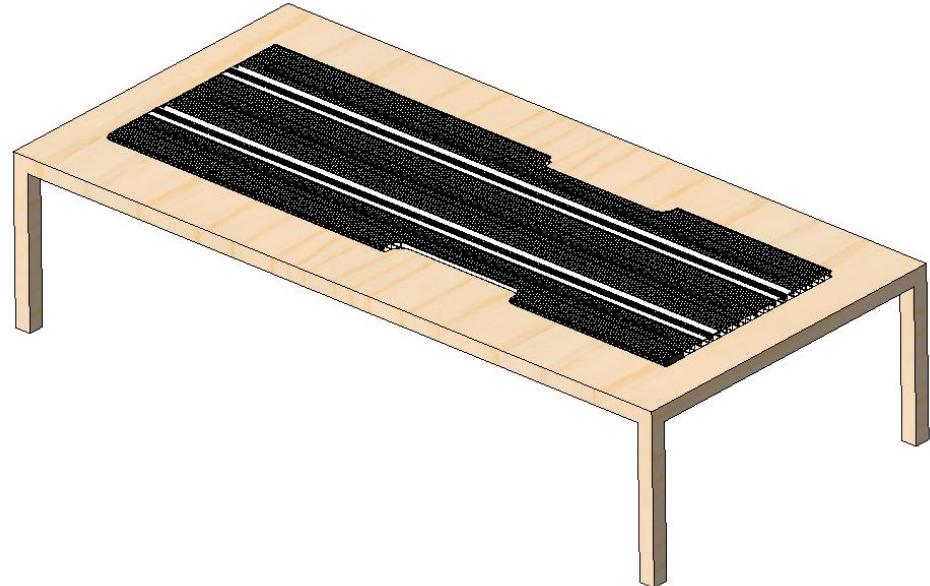
#	Install Step	Description of the steps	Pictures								
2	<p>Fixing Rollers in the Panels.</p> <p>(For WB_148 EL – Mover Kit Only)</p>	<ul style="list-style-type: none"> After assembling hangers with Panels, Need to Fix the Rollers in their respective machined panels as per the Picture. After Fixing rollers, check the Rolling Condition and ensure all rollers are at the same Level. Rollers to be fixed in these Panels : <table border="0"> <tr> <td>• B2-12-025A</td> <td>- 1 Panel</td> </tr> <tr> <td>• B2-12-018A</td> <td>- 1 Panel</td> </tr> <tr> <td>• B2-12-024A</td> <td>- 1 Panel</td> </tr> <tr> <td>• Roller</td> <td>- 156 No's (52/Panel)</td> </tr> </table> 	• B2-12-025A	- 1 Panel	• B2-12-018A	- 1 Panel	• B2-12-024A	- 1 Panel	• Roller	- 156 No's (52/Panel)	   
• B2-12-025A	- 1 Panel										
• B2-12-018A	- 1 Panel										
• B2-12-024A	- 1 Panel										
• Roller	- 156 No's (52/Panel)										

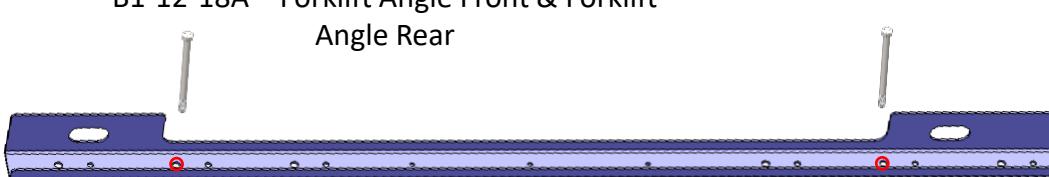
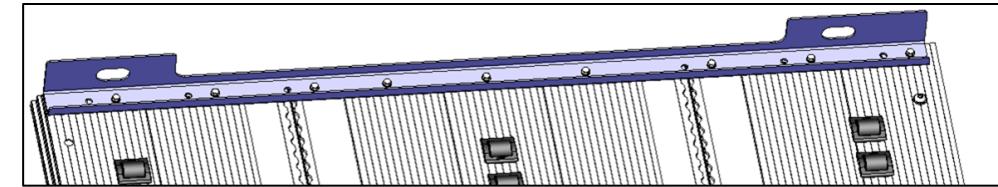
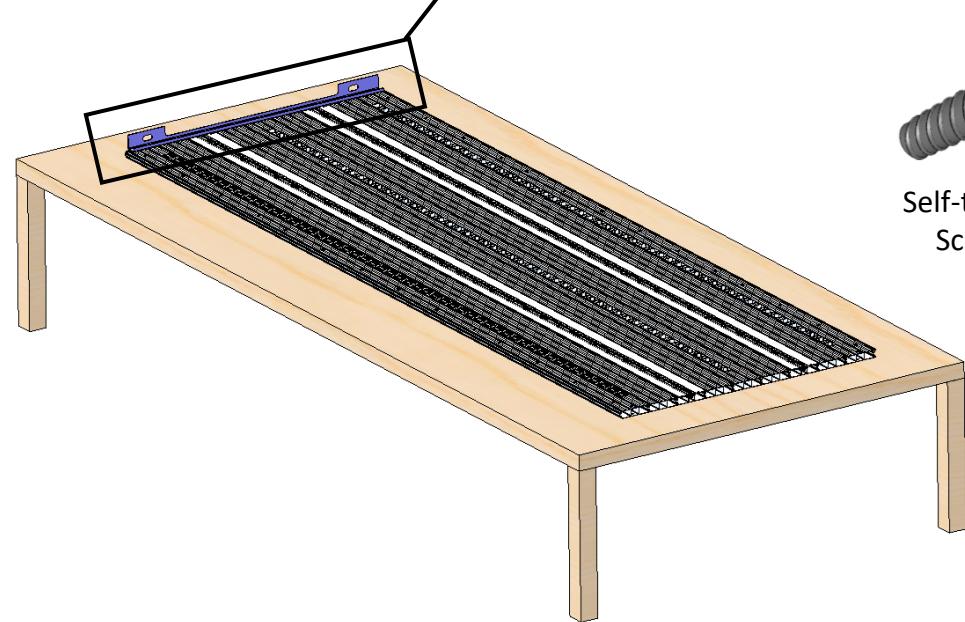
#	Install Step	Description of the steps	Pictures
2	Fixing Rollers in the Panels.	<ul style="list-style-type: none"> After assembling hangers with Panels, Need to Fix the Rollers in their respective machined panels as per the Picture. After Fixing rollers, check the Rolling Condition and ensure all rollers are at the same Level. Rollers to be fixed in these Panels : <ul style="list-style-type: none"> B2-12-018A - 3 Panel Roller - 156 No's (52/Panel) 	 <p>Roller</p>   

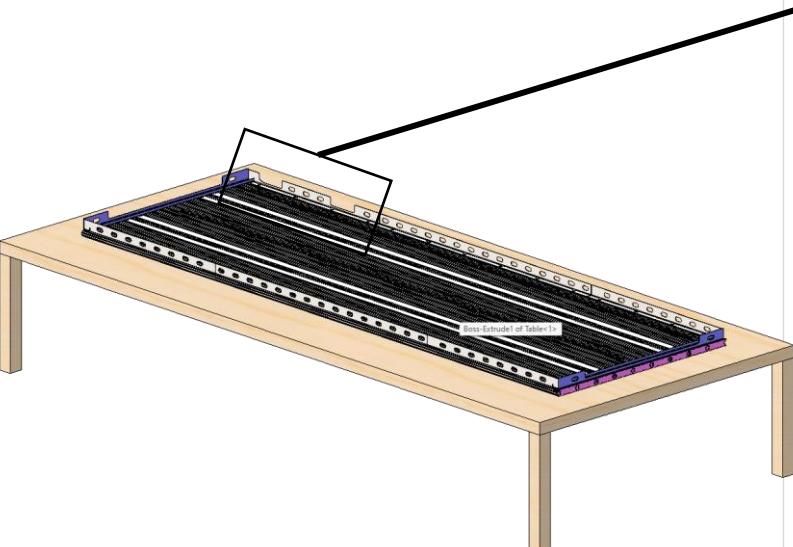
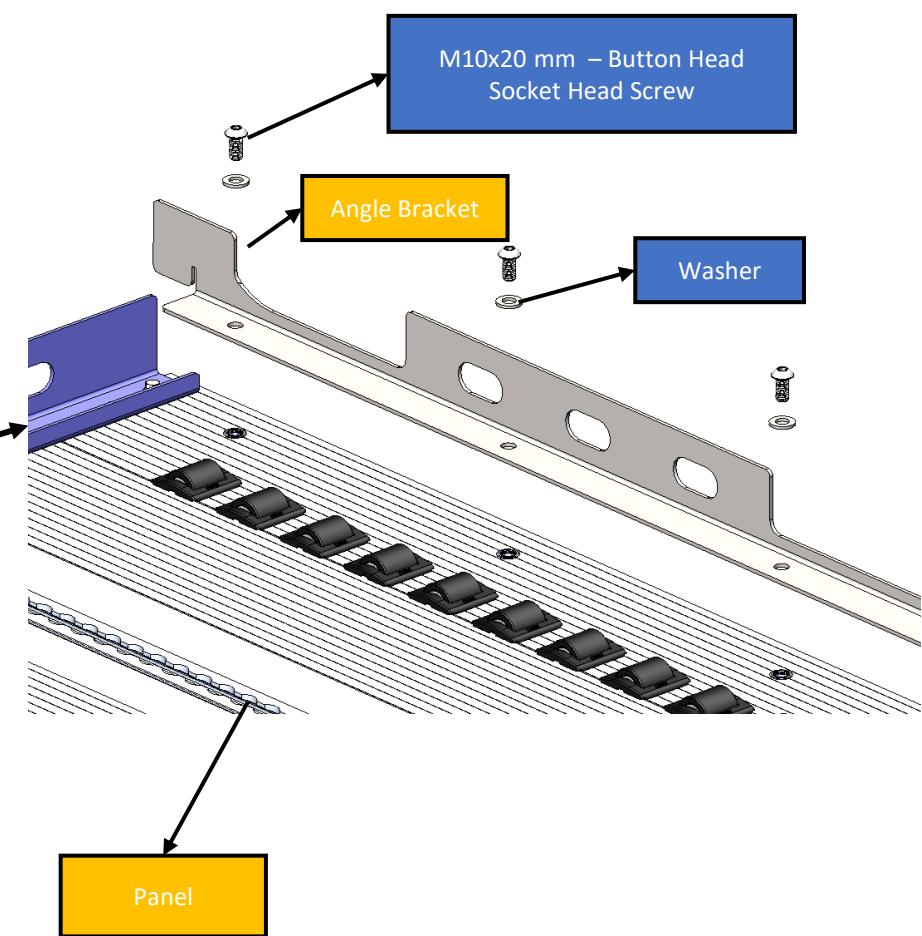
(For WB_148 EL-DRW – Mover Kit Only)

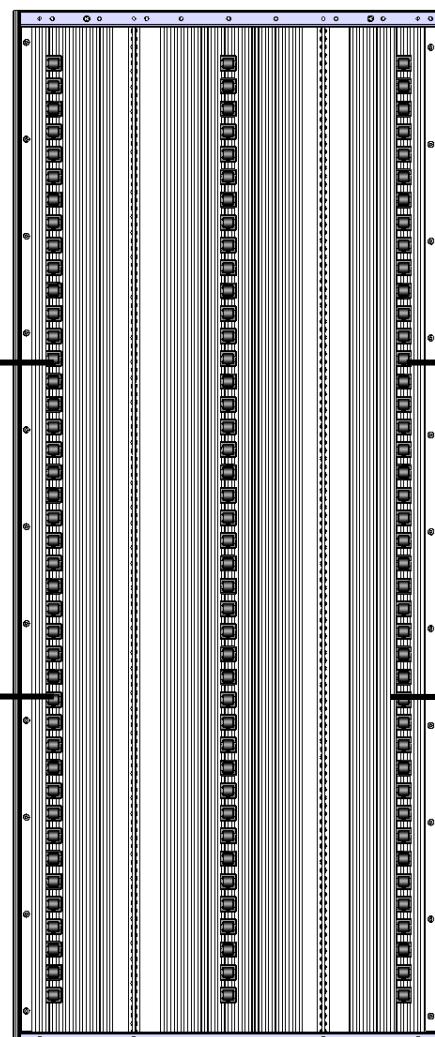
#	Install Step	Description of the steps	Pictures
3	Connect the 9 panels as shown & Fixing the End Cap in each panel.	<ul style="list-style-type: none"> After Fixing the Rollers in their respective panels, arrange the panels on the table as per the required configuration. Connect the 9 Panels as shown in the Picture. <p>(For Only WB_148 Mover Kit)</p>	<p>Panels Configuration</p>  <div style="display: flex; justify-content: space-between;"> <div style="flex: 1;">  - B2 - 12 - 029A – 1 Panel </div> <div style="flex: 1;">  - B2 - 12 - 016A – 4 Panels </div> <div style="flex: 1;">  - B2 - 12 - 013A – 2 Panels </div> <div style="flex: 1;">  - B2 - 12 - 014A – 1 Panel </div> <div style="flex: 1;">  - B2 - 12 - 028A – 1 Panel </div> </div> 

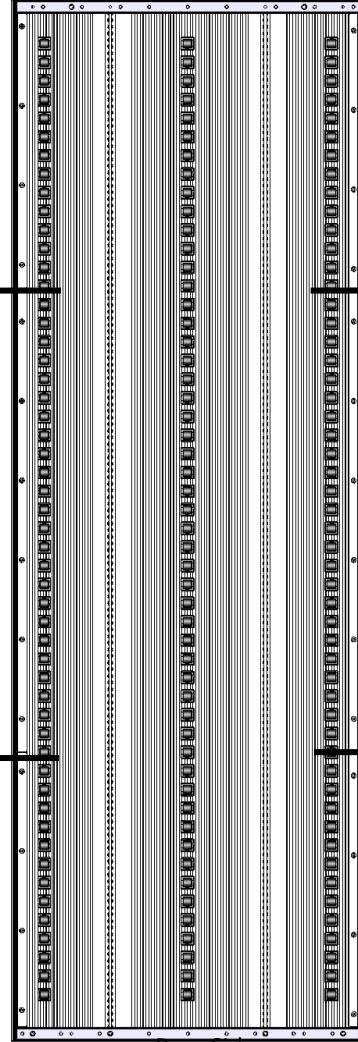
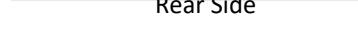
#	Install Step	Description of the steps	Pictures
3	Connect the 9 panels as shown & Fixing the End Cap in each panel.	<ul style="list-style-type: none"> After Fixing the Rollers in their respective panels, arrange the panels on the table as per the required configuration. Connect the 9 Panels as shown in the Picture. <p>(For Only WB_148 EL Mover Kit)</p>	<p>Panels Configuration</p>  <div style="display: flex; justify-content: space-around; margin-top: 10px;">  - B2 - 12 - 025A – 1 Panel  - B2 - 12 - 019A – 4 Panels  - B2 - 12 - 020A – 2 Panels  - B2 - 12 - 018A – 1 Panel  - B2 - 12 - 024A – 1 Panel </div> 

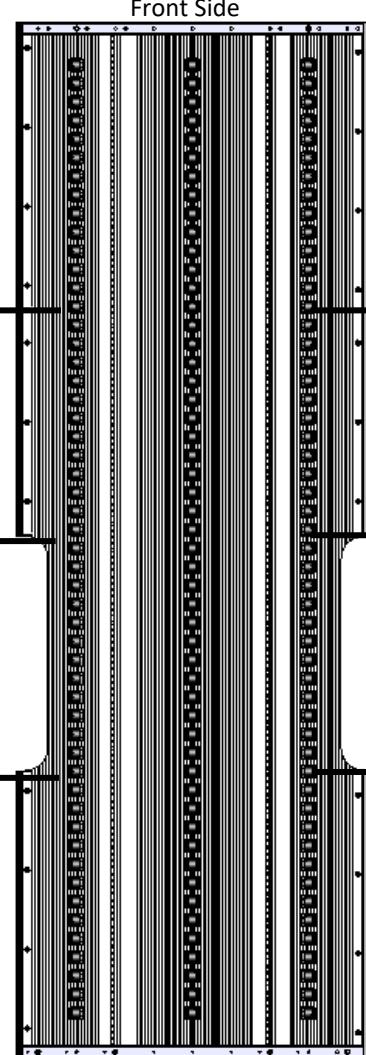
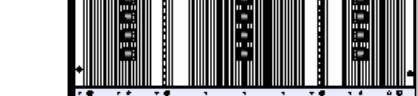
#	Install Step	Description of the steps	Pictures
3	Connect the 9 panels as shown & Fixing the End Cap in each panel.	<ul style="list-style-type: none"> After Fixing the Rollers in their respective panels, arrange the panels on the table as per the required configuration. Connect the 9 Panels as shown in the Picture. <p>(For Only WB_148 EL-DRW Mover Kit)</p>	<p>Panels Configuration</p>  <p>  - B2 - 12 - 027A – 1 Panel  - B2 - 12 - 019A – 2 Panels  - B2 - 12 - 020A – 2 Panels  - B2 - 12 - 018A – 3 Panel  - B2 - 12 - 026A – 1 Panel </p> 

#	Install Step	Description of the steps	Pictures
4	Fix Forklift Angle Front & Rear with Panels using Fasteners.	<ul style="list-style-type: none"> Forklift Angle Front & Rear – Mount the Front & Rear sides of the Panels on their respective side by first locating the 2 shown holes with the 2 track panels using M10 bolt and then tap the Self-tapping Screws as shown in the image. <ol style="list-style-type: none"> 1. Forklift Angle Front & Rear - B1-12-18A – 2 No's 2. Self-Tapping Screws – 14 No's (For Front Side – 9 Screws & Rear Side – 5 Screws) <p>To Fix the Forklift Angle Front – Use the Holes in Angles – 5 Holes & make another 4 Holes wherever that gives the Mounting strength in the panel.</p> <p>To Fix the Forklift Angle Rear – Use the Holes in Angles – 5 Holes except for the holes in Track Panel.</p>	<p>B1-12-18A – Forklift Angle Front & Forklift Angle Rear</p>     <p>Self-tapping Screws</p>

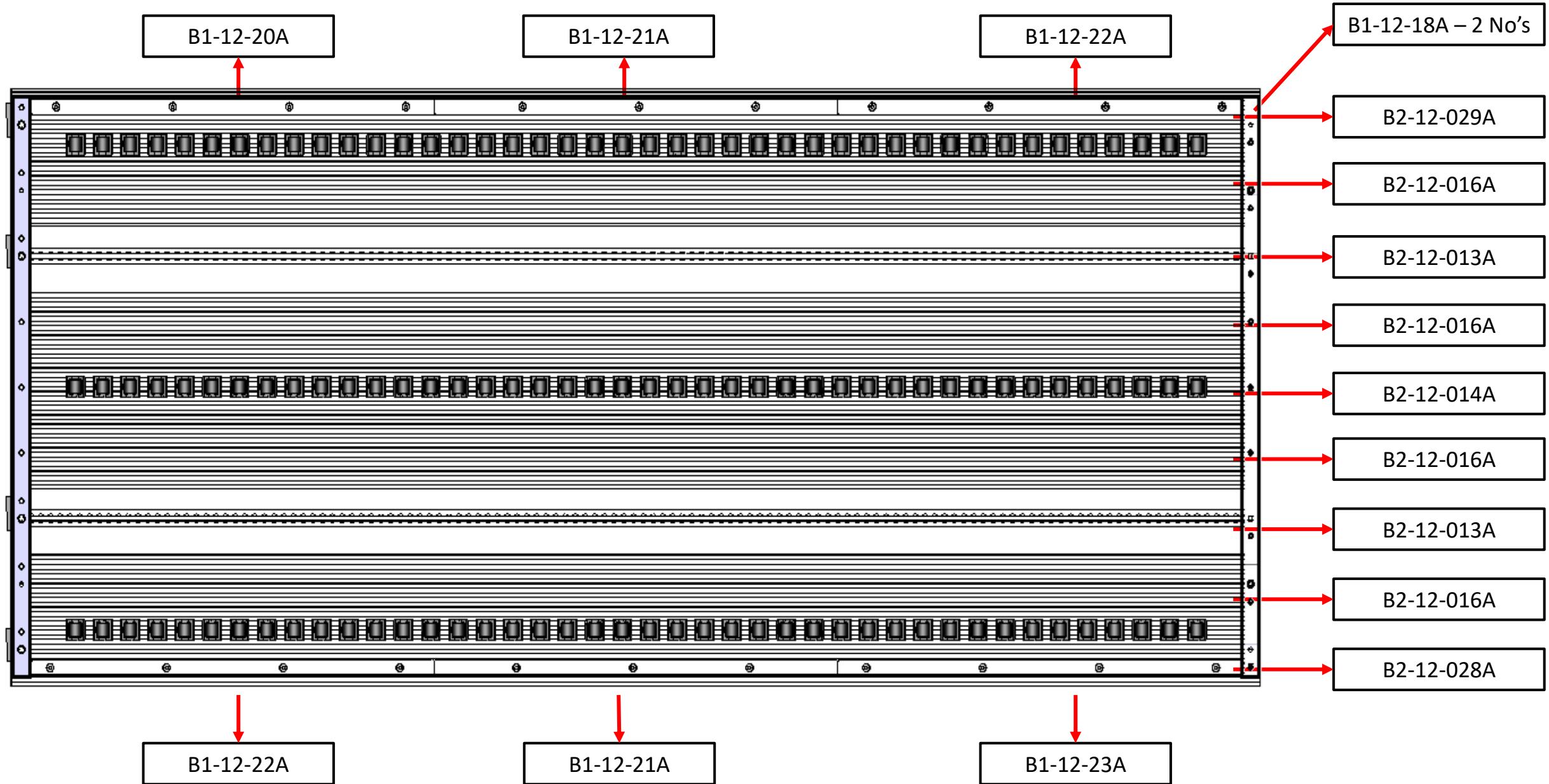
#	Install Step	Description of the steps	Pictures
5	Fixing Vertical Angle Brackets with Panels.	<p>After Fixing the Horizontal Fork-Lift Bracket Front & Rear, Using M10x20 mm – Button Head Socket Head Screw and washer fix the vertical brackets on the Driver and passenger side panels as shown in figure. Refer Page 11 or 12 for the vertical bracket layout based on your floor type.</p>  	

#	Install Step	Description of the steps	Pictures
	Place and Bolt the Angle Brackets as shown in picture.	       	<p>Front Side</p>   
	(Only for WB_148 Mover Kit)	 - Angle Front LH – 2 No  - Angle Front RH – 1 No  - Angle Mid – 2 No's  - Angle Rear LH – 1 No	   

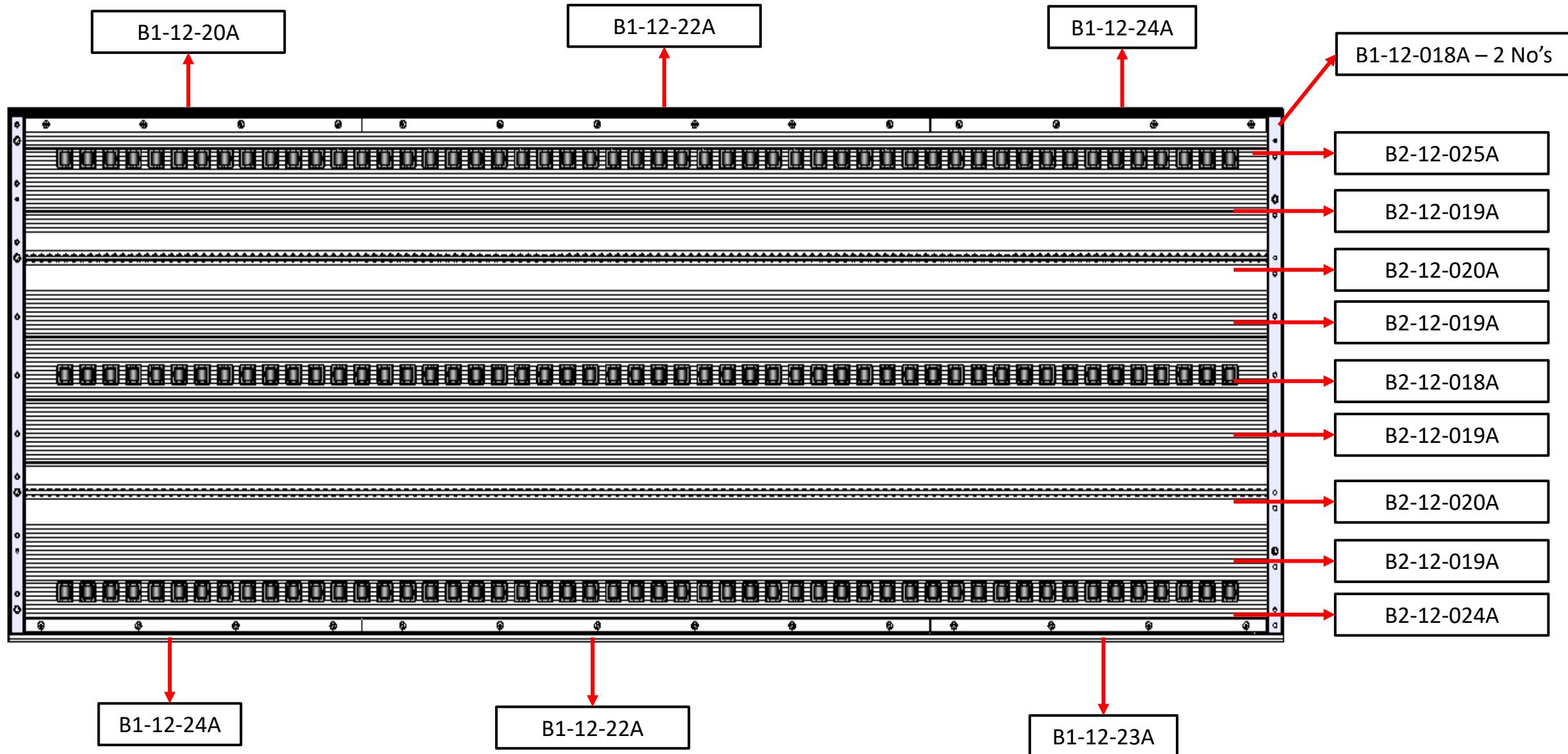
#	Install Step	Description of the steps	Pictures
	<p>Place and Bolt the Angle Brackets as shown in picture</p> <p>(Only for WB_148 EL Mover Kit)</p>	         - Angle Front LH – 2 No  - Angle Front RH – 1 No  - Angle Mid – 4 No's  - Angle Rear LH – 1 No	<p>Front Side</p>        

#	Install Step	Description of the steps	Pictures
	Place and Bolt the Angle Brackets as shown in picture	       	 
	(Only for WB_148 EL-DRW Mover Kit)	 - Angle Front LH – 2 No  - Angle Front RH – 1 No  - Angle Mid – 2 No's  - Angle Rear LH – 1 No	 
			  

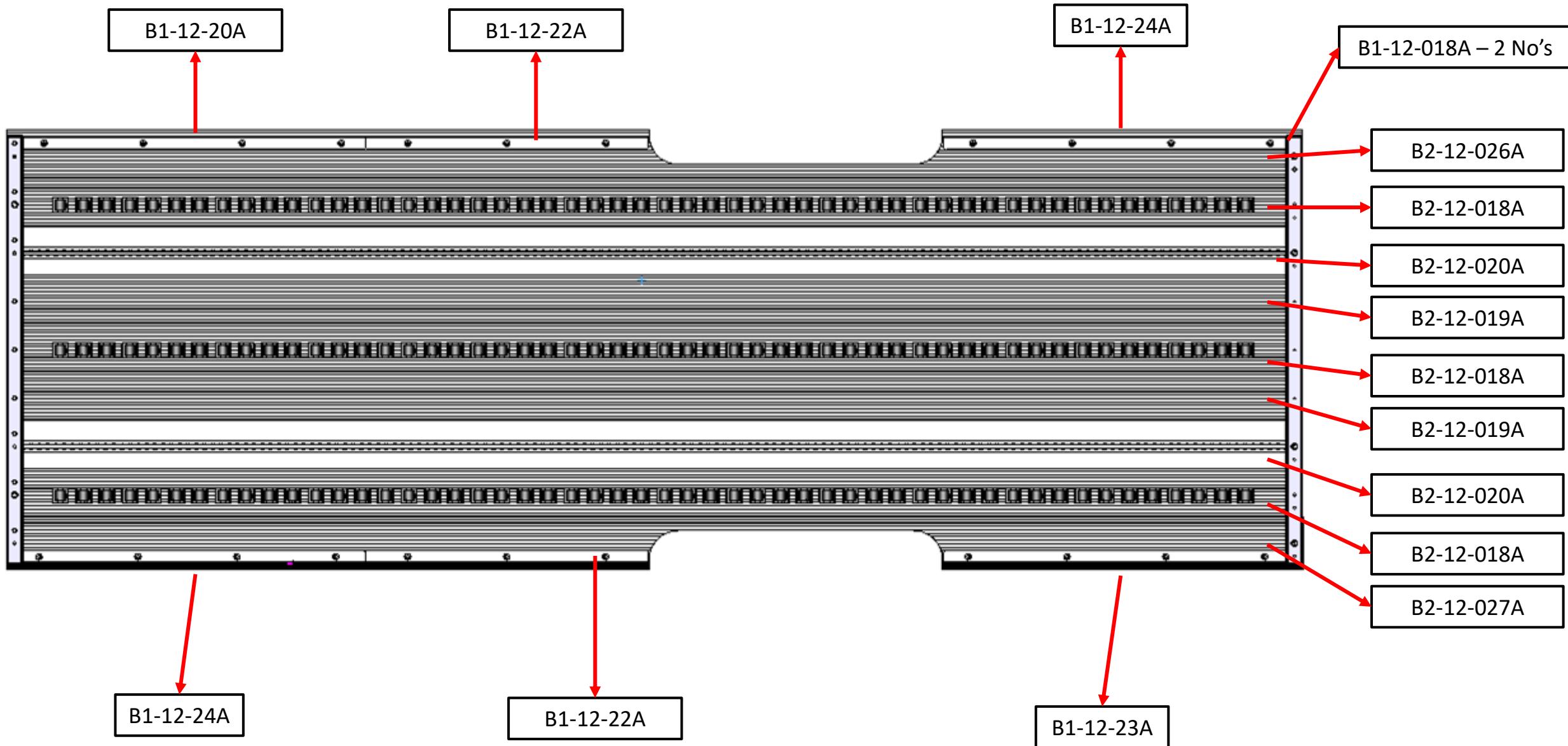
Configuration – WB_148 – Mover Kit

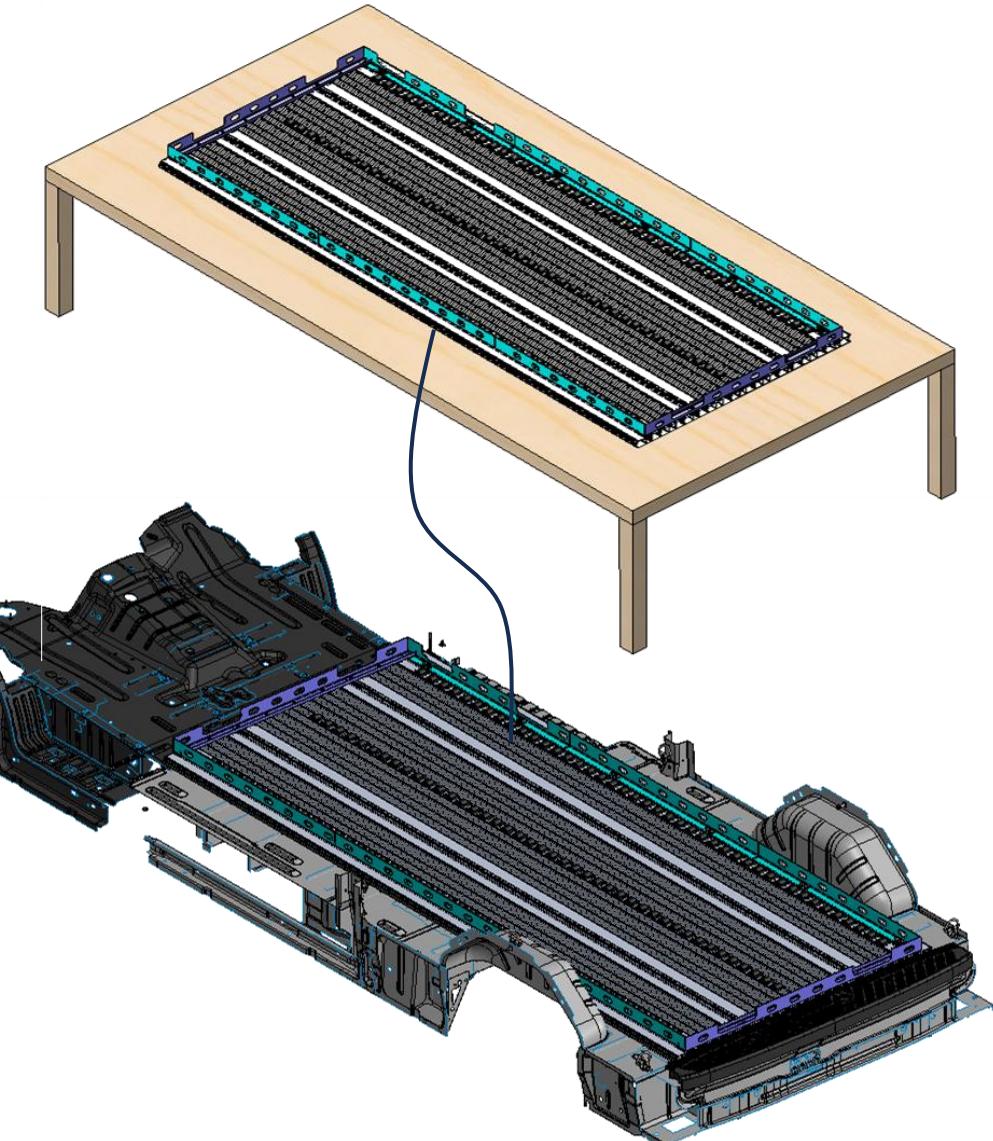


Configuration – WB_148 EL – Mover Kit



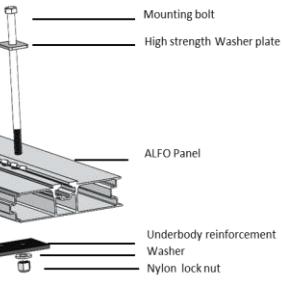
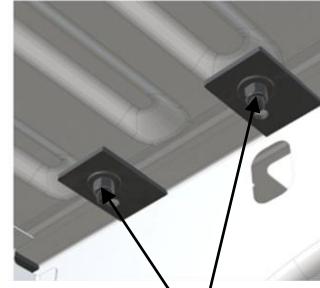
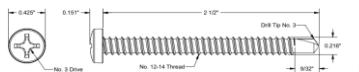
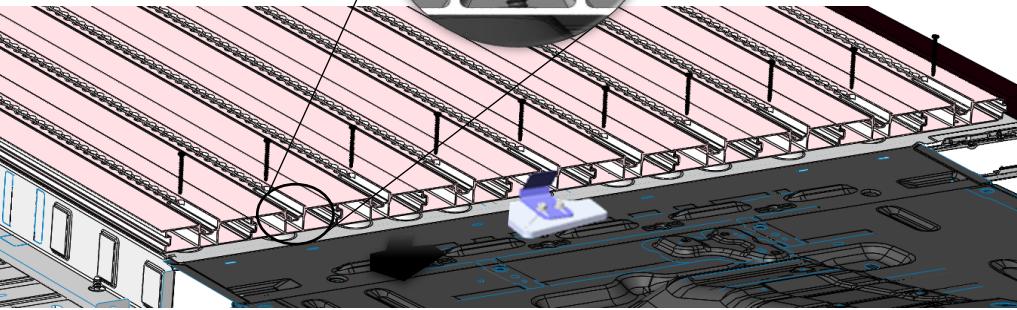
Configuration – WB_148EL-DRW – Mover Kit



#	Install Step	Description of the steps	Pictures
6	Take the assembly to the van.	<ul style="list-style-type: none">• Lift the panel assembly , and put it inside the van• Ensure that the there is enough space left on both sides.• Adjust the forward and cross car direction as required.	



Use gloves to lift

#	Install Step	Description of the steps	Pictures
7	Drilling, bolting at rear	<ul style="list-style-type: none"> Drill the OEM body using the through holes at the rear end of the panels. Based on the type of floor, use specific bolts length at specific locations as mentioned in BOM. Tighten the nuts with underbody reinforcement plates and washers. <p> Ensure that a bolt is inserted after drilling each hole. This helps to restrict the movement of the floor while drilling the next hole.</p> <p> Ensure that washer plate or double washers are used on the top and the bolts are tightened with a torque of 60 Nm</p>	  
8	<u>Non-Electric Vehicles</u> : Use only self tapping screws. <u>Electric Vehicles</u> : Use only 2 feet of glue in the front	<ul style="list-style-type: none"> Use self tapping screws in the front of the panels as shown in the picture. Ensure that the head of the self tapping screw's sits inside the groove and does not come in the way of moving a manual foot in the L track. For electric vehicle, use Sika 252 or Sika 255 in a 24-inch section, over the floor stiffening ribs as shown in the Page 17. 	   <p>Note :</p> <ol style="list-style-type: none"> For electric transit, self tapping screws should be replaced with glue, refer to page #22 (fig 3.1) For standard vans, use 1 qty of 7" bolts on the driver side front, refer to fig 1.1-fig 1.11

Location of the glue over ribs for electric vehicles
24" from the front, Ford WB148 only for reference

