

Pareto

Aluminum Systems






ALFOTM

Aluminum Flooring System


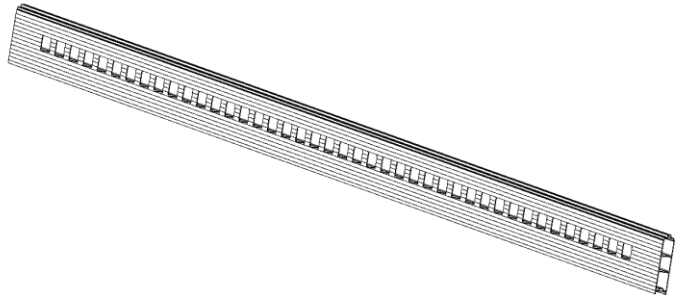
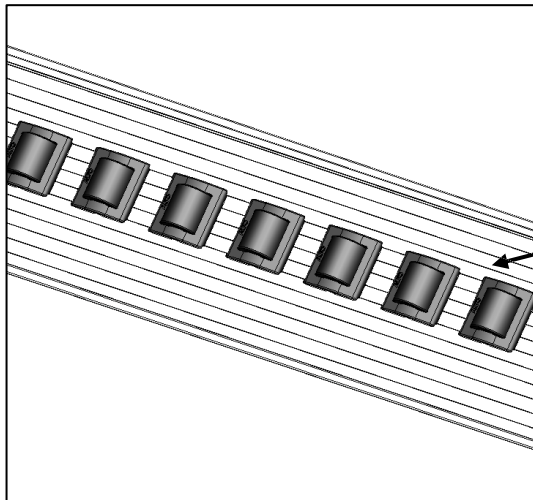
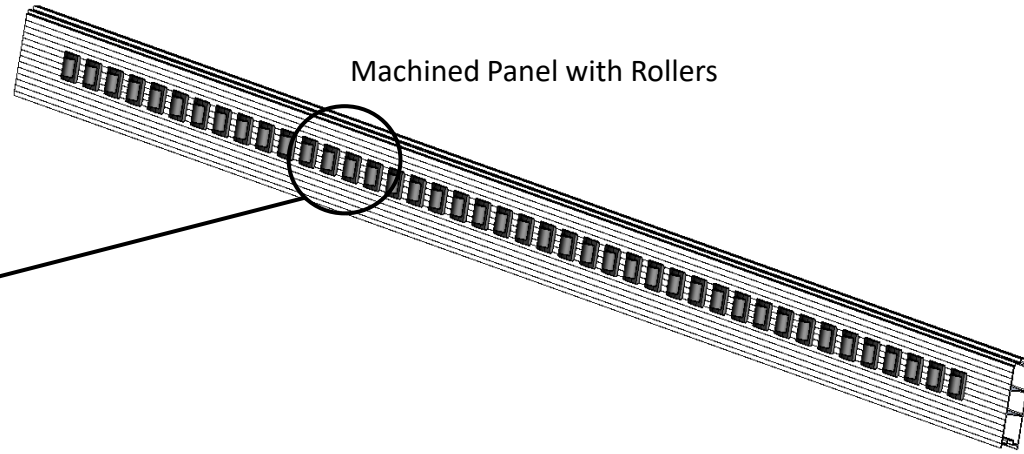
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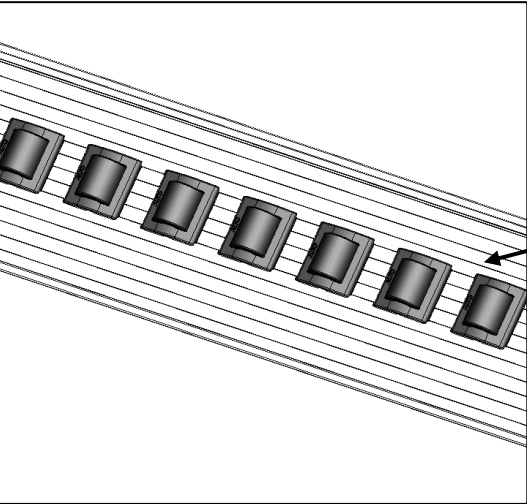

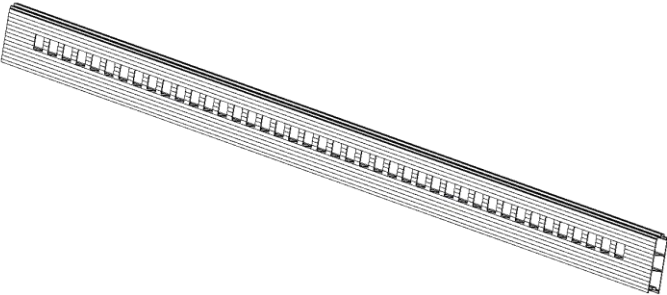
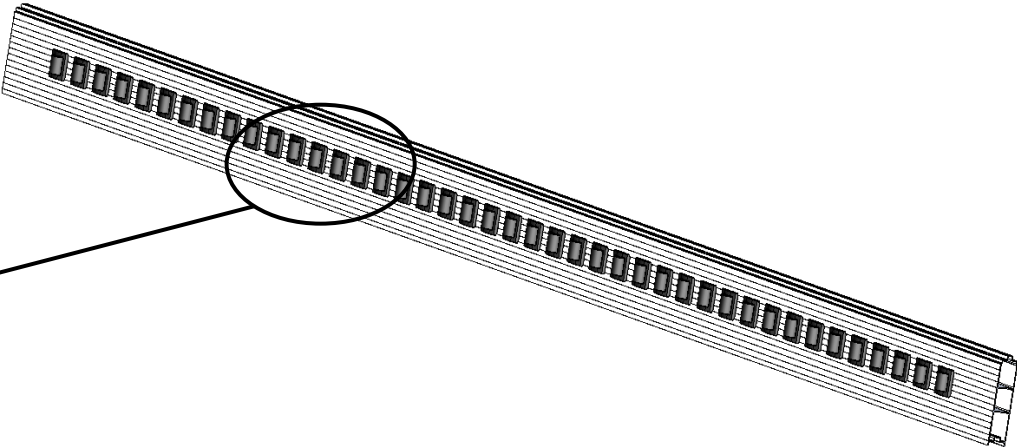
WB_148 & WB_148_EL – Mover Kit - Installation Guide

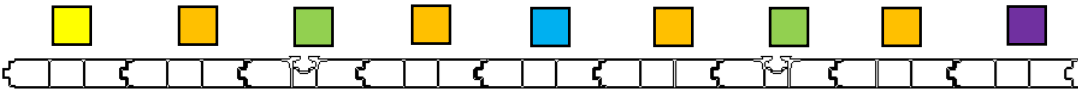
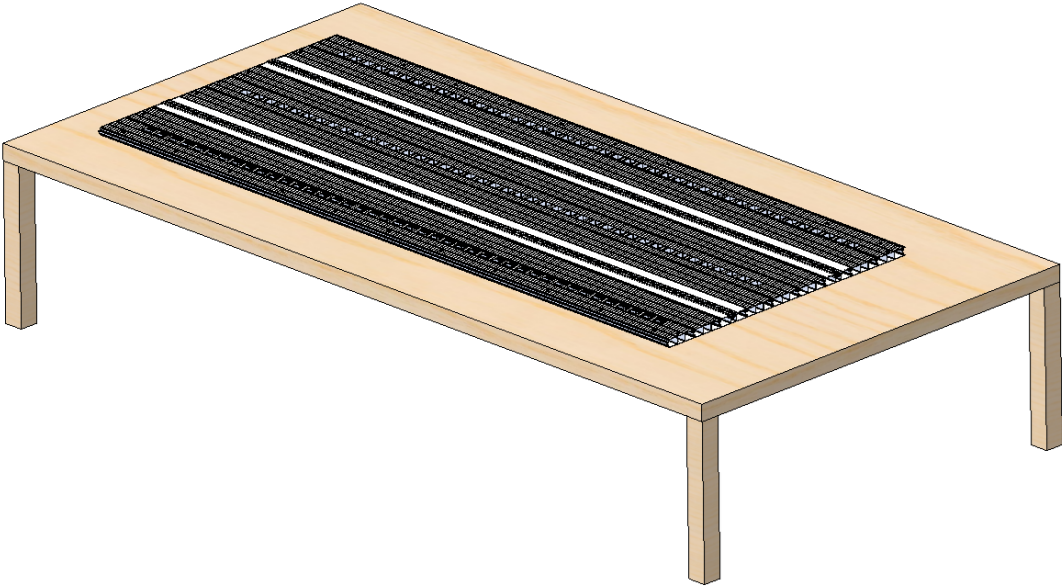
| # | Description | Picture | # | Description | Pictures |
|---|--|--|---|-------------|----------|
| 1 | 9/16" Drive Head for 3/8" Bolt |  | | | |
| 2 | Standard 3/8" Drill Bit Special 3/8" x 8" Drill Bit |  | | | |
| 3 | Drill Drive |  | | | |

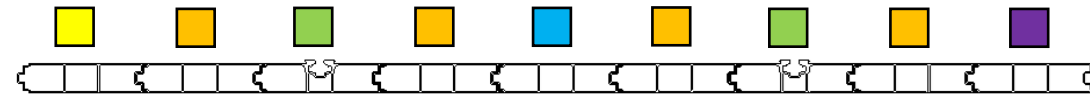

| # | Install Step | Description of the steps | Pictures |
|---|---|--|----------|
| 1 | Unbox the Crate and Check the materials availability as per BOM | <ul style="list-style-type: none">Check all panels availability as per the kit BOM available on the website. https://paretoas.com/alfo-kits/Each panel has a unique part # printed on the label. < | |

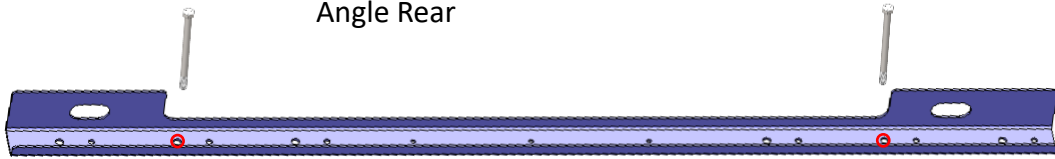
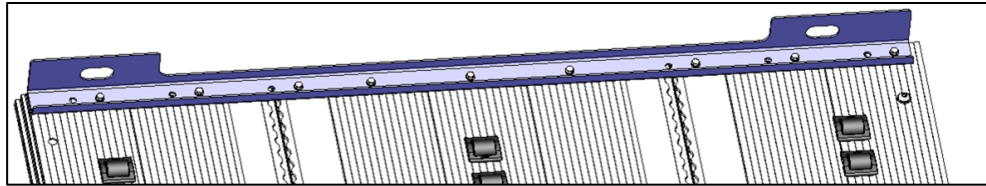
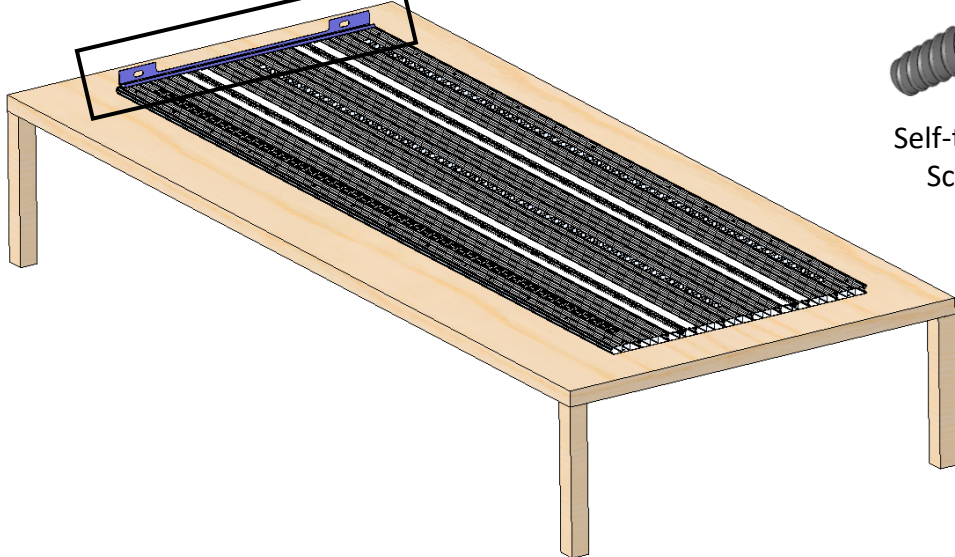
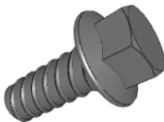
| # | Install Step | Description of the steps | Pictures | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---------------|-------------|------------------------------|---|---------------------------------|---|-----------------------------|---|--|---|---|---|--|---|--------------------------------------|---|---|---|------------------------|---|----------------------------|---|-------------------------|-----|---|---|---------------------|---|--------------------------------------|---|--------------------|----|---|----|--|----|
| 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. <div>BOM for WB_148 EL Mover Kit</div> | <table><tr><th>List of Items</th><th>No. of Item</th></tr><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></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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

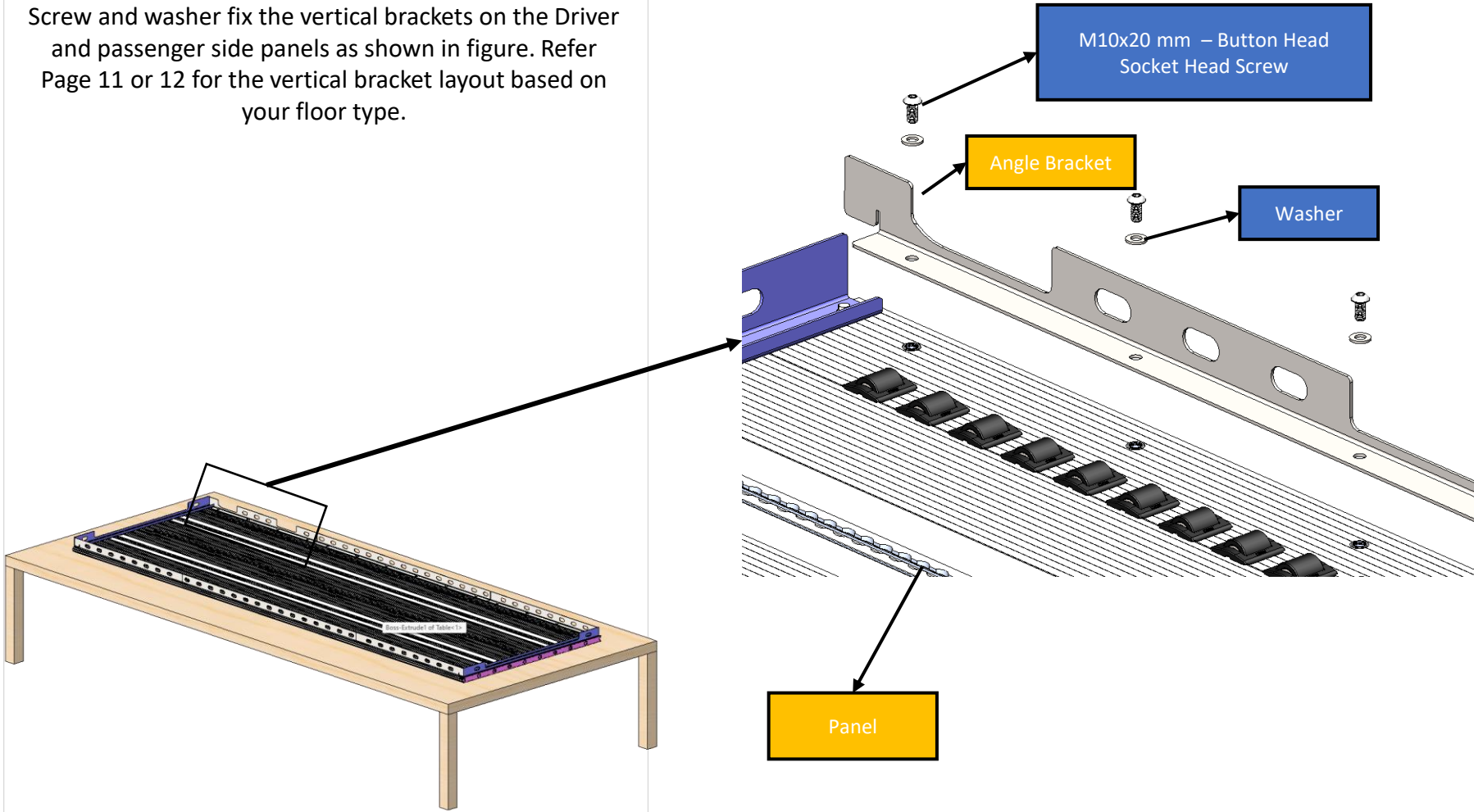
| # | Install Step | Description of the steps | Pictures |
|---|--|--|--|
| 2 | Fixing Rollers in the Panels. (For WB_148 – Mover Kit Only) | <ul style="list-style-type: none">After assembling hangers with Panels, Need to Fix the Rollers in their respective machined panels as per the Picture.After Fixing rollers, check the Rolling Condition and ensure all rollers are at the same Level.Rollers to be fixed in these Panels :<ul style="list-style-type: none">B2-12-029A - 1 PanelB2-12-014A - 1 PanelB2-12-028A - 1 PanelRoller - 126 No's (42/Panel) | <p>Roller</p>     <p>Machined Panel with Rollers</p> |


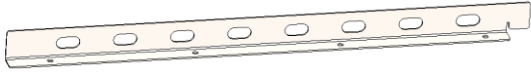

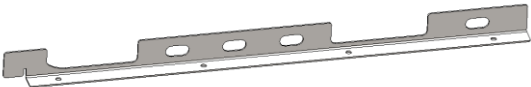

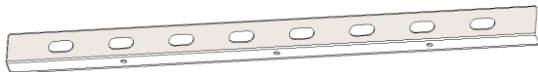

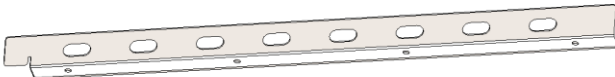




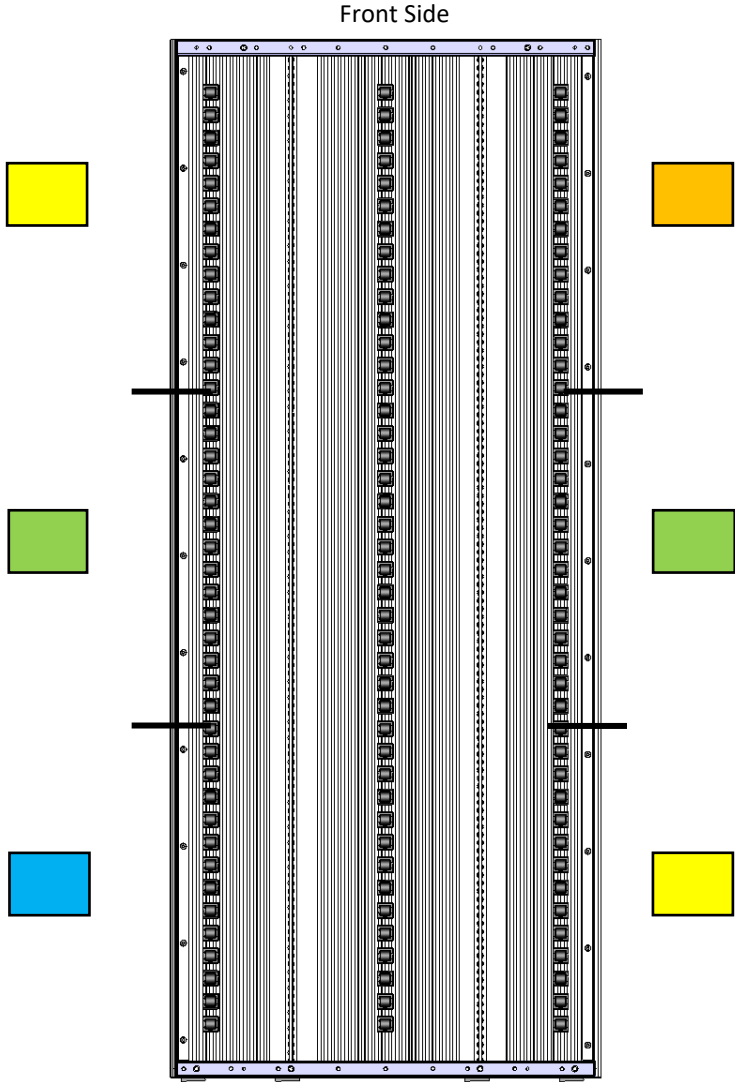
| # | Install Step | Description of the steps | Pictures |
|---|--|--|---|
| 2 | <div>Fixing Rollers in the Panels.</div> <div>(For WB_148_EL – Mover Kit Only)</div> | <div><ul style="list-style-type: none">• After assembling hangers with Panels, Need to Fix the Rollers in their respective machined panels 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">• B2-12-025A - 1 Panel• B2-12-018A - 1 Panel• B2-12-024A - 1 Panel• Roller - 156 No's (52/Panel)</div> <div></div> | <div><div>Roller</div><div></div></div> <div></div> <div></div> |













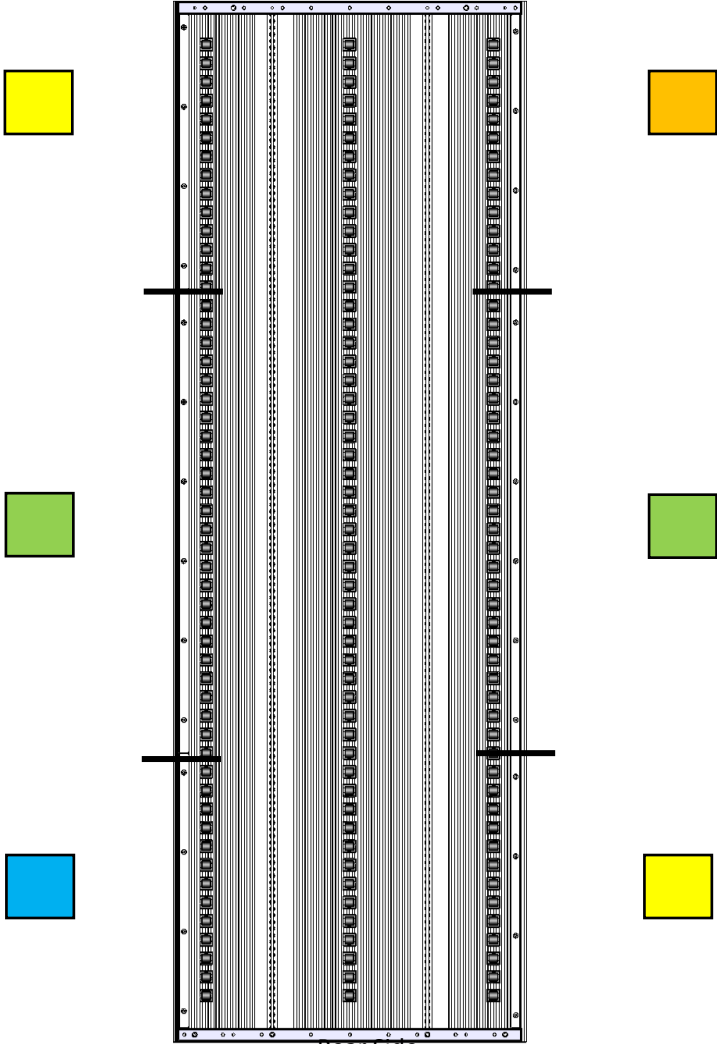
| # | Install Step | Description of the steps | Pictures |
|---|---|--|---|
| 3 | Connect the 9 panels as shown & Fixing the End Cap in each panel. | <ul style="list-style-type: none">After Fixing the Rollers in their respective panels, arrange the panels on the table as per the required configuration.Connect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

| # | 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>  <ul style="list-style-type: none">- 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  |

| # | 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">Forklift Angle Front & Rear - B1-12-18A – 2 No'sSelf-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>(For Only WB_148 Mover Kit & WB_148_EL Mover Kit)</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. (For WB_148 Mover Kit & WB_148_EL Mover Kit) | 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. |  |

| # | Install Step | Description of the steps | Pictures |
|---|---|---|--|
| | <p>Place and Bolt the Angle Brackets as shown in picture.</p> <p>(Only for WB_148 Mover Kit)</p> | <div><div></div><div></div><div>B1-12- 24A - Angle Front LH – 2 No</div></div> <div><div></div><div></div><div>B1-12-20A - Angle Front RH – 1 No</div></div> <div><div></div><div></div><div>B1-12- 21A - Angle Mid – 2 No's</div></div> <div><div></div><div></div><div>B1-12- 23A - Angle Rear LH – 1 No</div></div> <div><div></div><div>- Angle Front LH – 2 No</div></div> <div><div></div><div>- Angle Front RH – 1 No</div></div> <div><div></div><div>- Angle Mid – 2 No's</div></div> <div><div></div><div>- Angle Rear LH – 1 No</div></div> | <div><p>Front Side</p><p>Rear Side</p></div> |

| # | 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> | <div><div></div><div>B1-12- 24A - Angle Front LH – 2 No</div></div> <div><div></div><div>B1-12-20A - Angle Front RH – 1 No</div></div> <div><div></div><div>B1-12- 22A - Angle Mid – 4 No's</div></div> <div><div></div><div>B1-12- 23A - Angle Rear LH – 1 No</div></div> <div><div><div>- Angle Front LH – 2 No</div></div><div><div>- Angle Front RH – 1 No</div></div><div><div>- Angle Mid – 4 No's</div></div><div><div>- Angle Rear LH – 1 No</div></div></div> | <div><p>Front Side</p><p>Rear Side</p></div> |

Configuration – WB_148 – Mover Kit

B1-12-20A

B1-12-21A

B1-12-22A

B1-12-18A – 2 No's

B2-12-029A

B2-12-016A

B2-12-013A

B2-12-016A

B2-12-014A

B2-12-016A

B2-12-013A

B2-12-016A

B2-12-028A

B1-12-22A

B1-12-21A

B1-12-23A

F
R
O
N
T

Configuration – WB_148_EL – Mover Kit

B1-12-20A

B1-12-22A

B1-12-24A

B1-12-018A – 2 No's

B2-12-025A

B2-12-019A

B2-12-020A

B2-12-019A

B2-12-018A

B2-12-019A

B2-12-020A

B2-12-019A

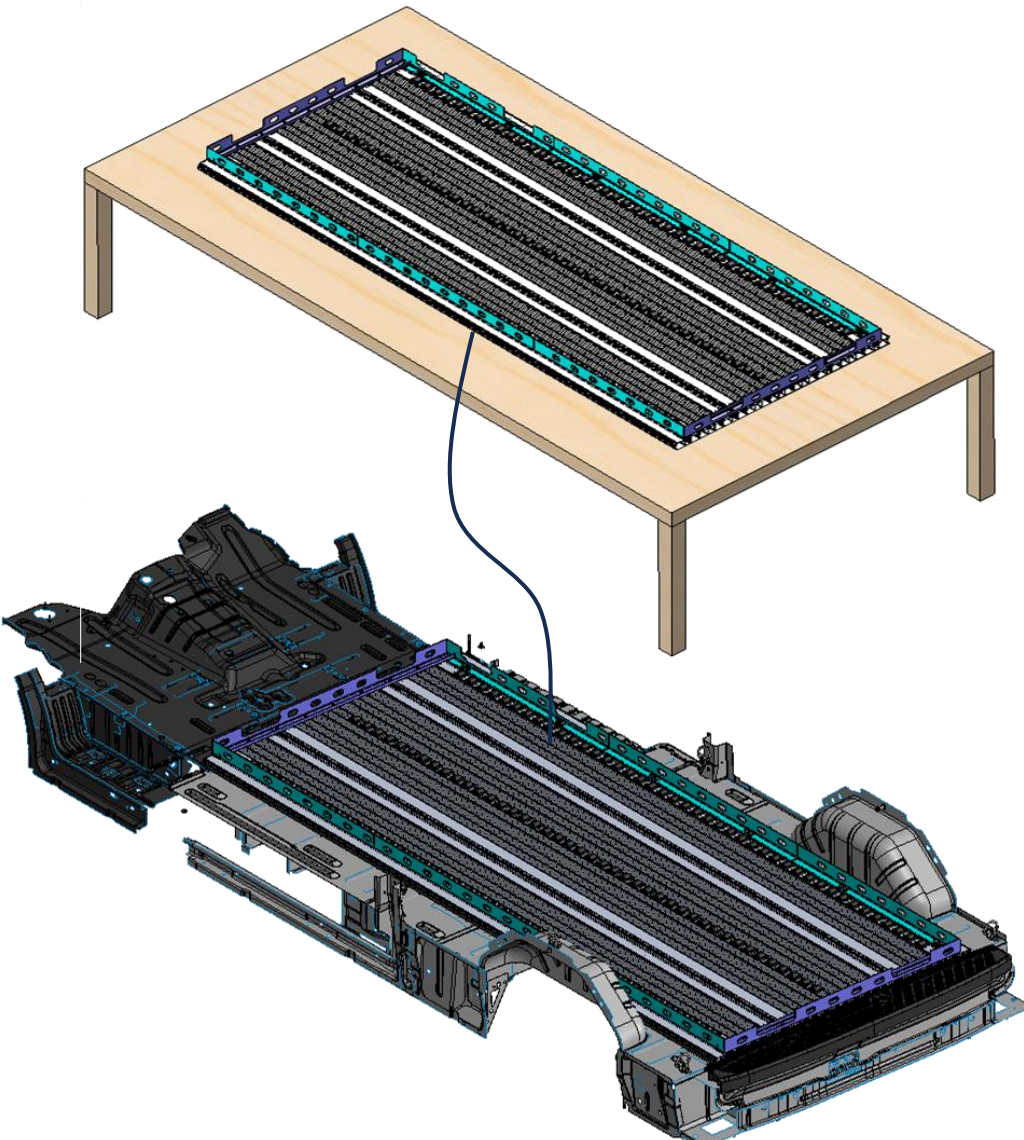
B2-12-024A

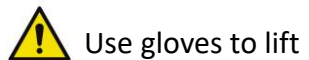
B1-12-24A



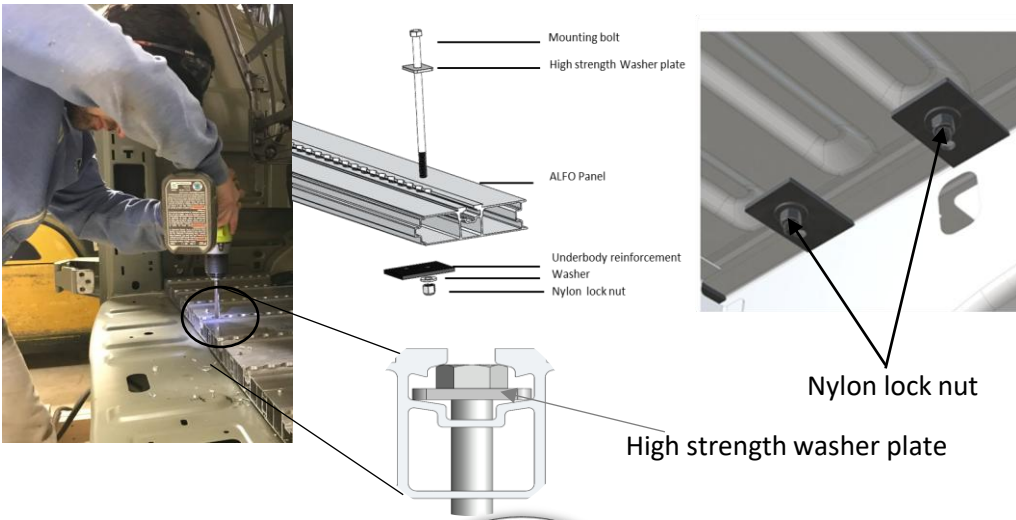
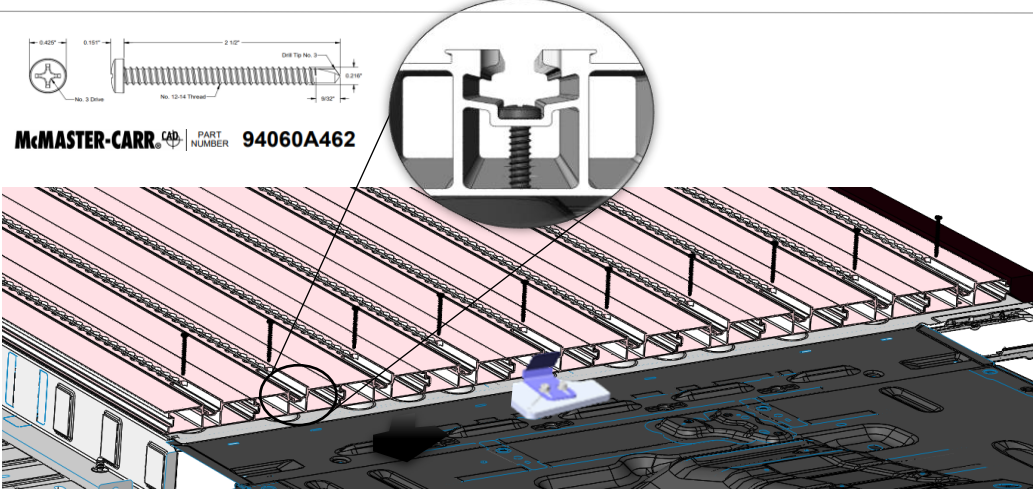
B1-12-22A

B1-12-23A

F
R
O
N
T

| # | 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 vanEnsure that there is enough space left on both sides.Adjust the forward and cross car direction as required. <p>(For Only WB_148 Mover Kit & WB_148_EL Mover Kit)</p> |  <p>The diagram illustrates the process of loading the mover kit into a van. The top part shows a rectangular panel assembly with a grid of black and white squares, bordered by a blue frame, resting on a light brown wooden table. A blue line indicates the path of the assembly as it is lowered into the van. The bottom part shows the interior of the van with the same panel assembly being placed on the floor. The van's interior is shown in a perspective view, with the panel assembly being positioned in the center. The van's floor is light gray, and the walls are a darker gray. The van's front and rear doors are open, and the interior is visible. The panel assembly is being lowered into the van from the top, and the blue line indicates the path of the assembly as it is lowered into the van.</p> |



| # | Install Step | Description of the steps | Pictures |
|---|--|---|---|
| 7 | <p>Drilling, bolting at rear</p> <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> | <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>(For Only WB_148 Mover Kit & WB_148_EL Mover Kit)</p> |  |
| 8 | <p><u>Non-Electric Vehicles</u>: Use only self tapping screws.</p> <p><u>Electric Vehicles</u>: Use only 2 feet of glue in the front</p> | <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">1. For electric transit, self tapping screws should be replaced with glue, refer to page #22 (fig 3.1)2. 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

