






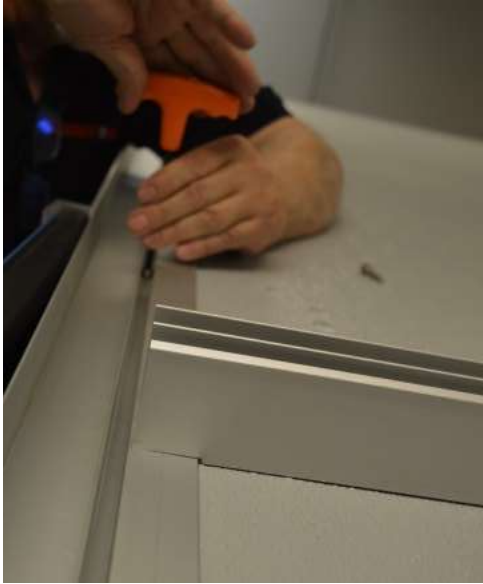

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| Step (picture) | Step (Instructions) | Step (Tools Required) | Step (Safety & PPE) |
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| <p>OP100018 Step 1</p>  | <p>Unpack the console and check for any shipping damage.</p> <p>Pull the airlines down inside the console.</p> <p>It is recommended to secure the hot and chilled water pipes with a piece of packaging foam behind them to prevent them from dropping to the bottom of the console when the console is stood up.</p> | | <p>Throughout: Safety Shoes Safety Glasses Hearing protection as required Additional equipment as required by the site</p> |
| <p>OP100018 Step 2</p>  | <p>Lay a chalk line along the front corners of the machine. This will be helpful to place the front corner panels (if applicable) after the console is in place.</p> <p>This line should be laid across the width of the bank to ensure the fronts of all the cabinets are aligned.</p> | <p>Chalk line</p> | |

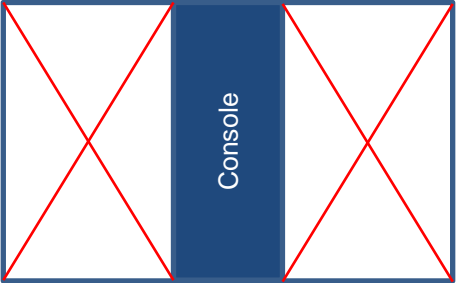

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| <p>OP100018 Step 3</p>    | <p>Centre the console on the front of the cabinet. It should fit into the cut-out portion of the header.</p> <p>Support it upright. It should be plumb.</p> | | |


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| <p>OP100018 Step 4</p>  | <p>Secure the console to the header using 2x B14094 hex socket head cap screws.</p> <p>DO NOT tighten.</p> | <p>5 mm Allen key</p> | |
| <p>OP100018 Step 5</p>  | <p>Ensure the console is vertical and plumb, and centered on the front of the machine.</p> <p>The console should be tilted outwards (away from the cabinet) slightly at the bottom so that the door will hit the bottom first when it closes.</p> | <p>4 foot level</p> | |



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| <p>OP100018 Step 6</p>  | <p>Check the critical measurements, measuring the diagonal in the opening of each door space.</p> <p>All 4 measurements should be equal. If not, make adjustments to the console positioning to correct this.</p> | <p>Measuring tape</p> | |
| <p>OP100018 Step 7</p>  | <p>Adjust the levelling screws in the console base until the console and the header extrusion fit snugly and the header is level.</p> <p>Confirm the console is still centered, level, plumb and evenly located in the center of the front of each cabinet.</p> <p>Note: Use a long handled pry bar to lift up on the console while adjusting the levelling screws. This will make it significantly easier as well as reducing warping to the base of the console.</p> <p>Note: adjust the two rear levelling screws until the console is tight to the header, and the header is level. Then adjust the front levelling screw down to the floor for additional support.</p> | <p>Long-handled crow bar or pry bar Flat screwdriver 7/8" wrench</p> | |


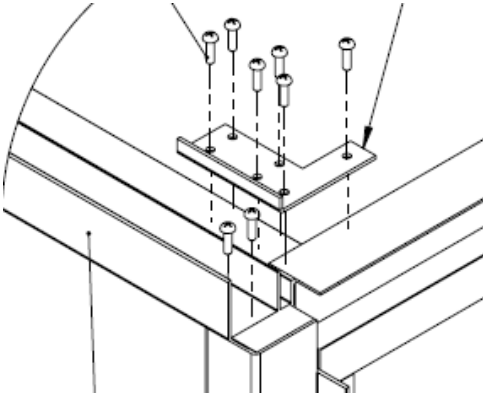


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| OP100018 Step 8 | <p>Once all the roof panels and consoles have been installed across a bank, level and straighten all the headers across the bank.</p> <p>Start at one end of the bank and adjust across the bank.</p> | | |
| OP100018 Step 9  | <p>Use a laser line level after checking calibration to provide a level line for levelling the headers. You may need to locate the tripod on top of a cart or tool box in order to project a line along the top of the header.</p> <p>Adjust the levelling screws as above and then ensure the console is plumb before checking the level and continuing adjustments.</p> <p>Alternatively you may use 3 hinge blocks (PB6182) and 3 thick shims (MB19696) with a string. Stack one hinge block and one shim at each corner, and clamp on top of the header with the string on top. Locate the third hinge block in the center of the header under the string. The header will be level when the third shim just fits under the string without pushing it before sliding under.</p> | Laser line level Trigger clamps String Long-handled crow bar or pry bar Flat screwdriver | |



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| <p>OP100018 Step 10</p>  | <p>Once the header is level along the length of the cabinet, ensure that it is also straight and not bowed out.</p> <p>Using a string and two of the thicker shims (MB19696), clamp a string line along the length of the header.</p> <p>Use a piece of 2x4 as a block and hammer to adjust the location of the console and center roof extrusion. Locate the block on the door frame portion of the header. You may also need to angle it to contact the center roof extrusion to move it back into full contact with the rear top wall extrusion.</p> <p>Adjust the top of the console back until a third shim inserts between the string and front of the header without pushing the string but touching.</p> <p>Confirm the console is still plumb.</p> <p>Note: In rare cases, the header may be bowed in. In this case, check first that the rear wall is plumb, and adjust if necessary. Confirm also that the console is plumb as well.</p> | <p>Trigger clamps String Hammer</p> | |
| <p>OP100018 Step 11</p>  | <p>Drive two P6200 self-drilling screws through the top of the header, on either side of the socket head screws, down into the panels to hold the header to the panels in case the console gets bumped.</p> | <p>Drill #2 Phillips drill bit</p> | |




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| OP100018 Step 12  | Anchor the center roof extrusion to the header using a thin shim (MB19695) with the center cut out and 4x self-drilling screws. | Tin snips Cordless drill #2 Phillips driver bit | |
| OP100018 Step 13  | Use the MB20591 and MB20592 corner brackets to fasten the header to the side top wall extrusions. Use 6x P6200 self-drilling screws. Ensure the corner is flush and tight when affixing the corner plates. Note: the lip of the corner plate will be facing up, tight to the lip on the header. | Drill #2 Phillips driver bit | |
| OP100018 Step 14  | Insert P6200 self-drilling screws into the ends of the cross-H extrusions to stabilize the roof further. | | |
| OP100018 Step 15  | Locate the front corner posts. Insert a hinge block in the top of each. You may need to file the corners slightly to make it fit, or use a rubber mallet to hammer it in place. It must be flush at the top of the extrusion. | File Grinder Rubber mallet | |



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| <p>OP100018 Step 16</p>  | <p>Pre-drill the hole in the extrusion using a 3/8" drill bit, and then in the hinge block using a 1/8" drill bit.</p> <p>Use a self-drilling screw to attach the hinge block to the extrusion.</p> | <p>Cordless drill 3/8" drill bit 1/8" drill bit #2 Phillips driver bit</p> | |
| <p>OP100018 Step 17</p>  | <p>Ensure that the side panels do not extend past the end of the top corner wall extrusion.</p> <p>Apply silicone to the inside of the front corner post.</p> <p>Slot the front corner post onto the front of the cabinet.</p> <p>Check that it is plumb.</p> | <p>Caulking gun 4-foot level</p> | |

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| <p>OP100018 Step 18</p>  | <p>Pre-drill through the header and into the hinge block, using a 3/8" bit for the header and a 1/8" bit for the hinge block.</p> <p>Then insert one self-drilling screw through the header, into the hinge block to anchor the front corner post to the header.</p> | <p>Cordless drill 3/8" drill bit 1/8" drill bit #2 Phillips driver bit</p> | |
| <p>OP100018 Step 19</p>  | <p>Once the console is up and the header levelled, finishing of the cabinet may begin. Start by connecting the hot and chilled water pipes inside the console.</p> <p>Gently push the copper pipes for the cooling and (optional) heating system through the roof. You may need to guide them with a screwdriver.</p> | <p>Long flat screwdriver</p> | |
| <p>OP100018 Step 20</p>  | <p>Connect the unions from the solenoid valves to the pipes to hold them in place.</p> <p>Apply a small amount of thread sealant.</p> <p>Ensure the union and the pipe are lined up perfectly and gently thread together.</p> <p>Hand-tighten and then tighten with a wrench.</p> <p>Note: The check valve must be pointing upwards as shown.</p> | <p>1" Wrench</p> | |

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| <p>OP100018 Step 21</p>  | <p>The cabinet may now be siliconed and grouted. Consult the relevant procedures.</p> <p>Silicone should be applied along every edge of every extrusion where it meets a panel, both inside and outside the cabinet.</p> <p>Note: The console should have silicone applied along the joints where manufactured. If this is not the case, please apply silicone, and report the non-conformance along with the serial number of the unit.</p> <p>Note: The space between the console and the header must be siliconed to seal the gap completely.</p> | | |
| <p>OP100018 Step 22</p>  | <p>It may be necessary to remove the lower console door during installation to access that section more easily. Number the doors so that the same door can be replaced on the console it was removed from.</p> <p>If this is the case, ensure that the door is replaced and lined up with the upper console door, so there are no protruding edges. The hinge may be manually manipulated to put the door back in line.</p> | | |

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| OP100018 Step 23 | <p>Proceed to installing the front corner panels and door jam extrusions if applicable.</p> <p>If not, proceed to installing the ECU stands or hanging the doors. It may be simpler to install the ECU stands first on a larger installation or one with a narrow hallway so that the doors are not obstructing your work and are not damaged by traffic in the hallway.</p> <p>You may also proceed to finishing the cabinet with the add-ons, airlines, humidity, etc.</p> | | |