




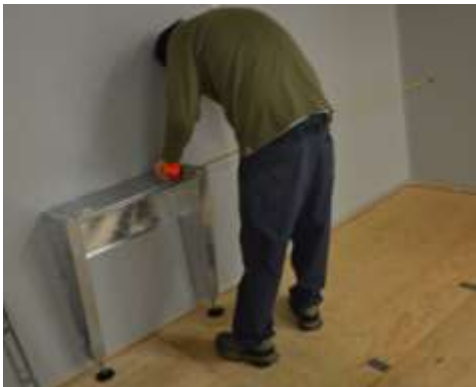
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	<b>Operation Instruction Title:</b> <b>Single Depth ECU Supports</b>	Revision Date: 04/06/2018	Revised By: V. Frail
		Revision No. 1	Approved By: S. Ditner


Step (picture)	Step (Instructions)	Step (Tools Required)	Step (Safety & PPE)															
OP100023 Step 1	<p><b>Note:</b> The ECU supports must be in line front to back.</p> <p><b>Note:</b> The ECU supports should be sloped 1/8" away from the intake.</p> <p><b>Note:</b> Locate the front ECU support first for a front-intake cabinet. Locate the rear ECU support and intake duct first for a rear-intake cabinet.</p>		Throughout: Safety Shoes Safety Glasses Hearing protection as required Additional equipment as required by the site															
Installing the Levelling Feet																		
OP100023 Step 2	<p>The levelling feet must be installed on all ECU stands before positioning them.</p> <p>Each levelling foot consists of:</p> <table border="1"> <thead> <tr> <th>Part #</th> <th>Qty</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>PB5704</td> <td>1</td> <td>Zinc plated articulated foot</td> </tr> <tr> <td>P6255</td> <td>2</td> <td>1/2"-13 Nut S.S.</td> </tr> <tr> <td>P6286</td> <td>1</td> <td>1/2" S.S. Flat Washer</td> </tr> <tr> <td>P6317</td> <td>1</td> <td>1/2" S.S. Lock Washer</td> </tr> </tbody> </table>	Part #	Qty	Description	PB5704	1	Zinc plated articulated foot	P6255	2	1/2"-13 Nut S.S.	P6286	1	1/2" S.S. Flat Washer	P6317	1	1/2" S.S. Lock Washer		
Part #	Qty	Description																
PB5704	1	Zinc plated articulated foot																
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P6317	1	1/2" S.S. Lock Washer																
OP100023 Step 3	 <p>Thread one P6255 nut halfway down the articulated foot.</p> <p>Add the P6286 flat washer on top.</p> <p>Insert the articulated foot through the hole in the leg of the ECU stand.</p> <p>Slide on the P6317 lock washer and thread on another P6255 nut.</p> <p>Do not fully tighten until the ECU stand has been placed and secured.</p> <p>Repeat for the other ECU stand leg.</p>																	




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Step (picture)	Step (Instructions)	Step (Tools Required)	Step (Safety & PPE)
Front Air Intake Cabinets – ECU Positioning			
OP100023 Step 4  	<p>Before locating the front ECU support, determine the approximate height required for the ECU.</p> <p>For front air intake, the top of the front ECU support should be 28.5" from the bottom of the console housing.</p> <p>Adjust the levelling feet on the front ECU support to meet this distance, and ensure the support is level.</p>	Measuring tape ½" & ¾" Wrenches 4-foot level	




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Step (picture)	Step (Instructions)	Step (Tools Required)	Step (Safety & PPE)
OP100023 Step 5 	Centre the front ECU support on the back of the console.  Check by measuring the overhang on both sides of the console and ensuring it is equal.	Measuring tape	
OP100023 Step 6 	Secure the support temporarily using 2 P6200 self-drilling screws.	Cordless drill #2 Phillips driver bit	
OP100023 Step 7 	Locate the ECU support at the rear of the cabinet.  It should be centered on the rear wall.	Measuring tape	

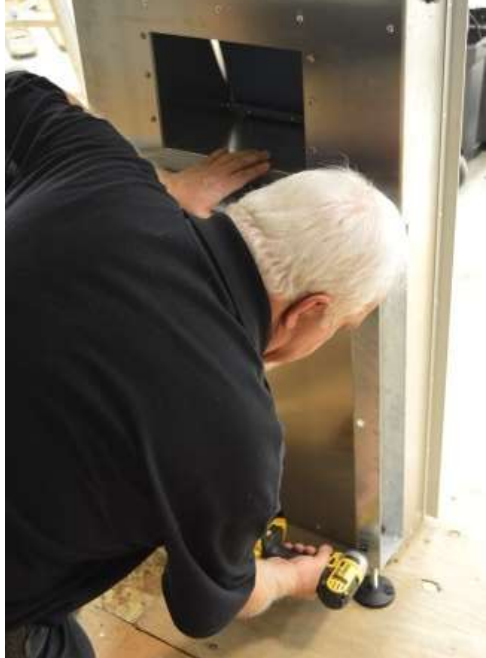


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Step (picture)	Step (Instructions)	Step (Tools Required)	Step (Safety & PPE)
OP100023 Step 8 	<p>Use a line level to project a line at the level of the front ECU support.</p> <p>Adjust the levelling feet so that the ECU stand is 1/8" lower than the projected line.</p> <p>Also ensure the support is level side-to-side.</p>	Laser line level 4-foot level Measuring tape 1/2" & 3/4" Wrenches	
OP100023 Step 9	<p>Mark the location of the holes on the rear ECU stand and remove the ECU stand. Drill a 1/4" hole through the FRP only.</p>	Sharpie Cordless drill 1/8" drill bit	
OP100023 Step 10 	<p>Apply silicone along the rear of the rear support.</p> <p>Replace against the wall and confirm it is still level side-to-side and 1/8" lower than the front ECU support.</p>	Caulking gun 4-foot level Laser line level	
OP100023 Step 11 	<p>Insert plastic drive rivets through the holes in the ECU support.</p> <p>Use a hammer to tap the rivet in.</p> <p>Secure the ECU support with 6 total plastic rivets, 3 on each side.</p>	Cordless drill 1/4" Drill bit Hammer	

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Step (picture)	Step (Instructions)	Step (Tools Required)	Step (Safety & PPE)
<p>OP100023 Step 12</p> 	<p>For the front support, adjust again if necessary to ensure it is appropriately located (1/8" higher than the rear ECU stand, level side to side, centered in the console and in line with the rear ECU stand).</p> <p>Remove the screws.</p>	<p>Cordless drill #2 Phillips driver bit</p>	
<p>OP100023 Step 13</p>  	<p>Apply silicone to the backside (console side) of the front support.</p> <p>Put back in its location.</p>	<p>Caulking gun</p>	



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Step (picture)	Step (Instructions)	Step (Tools Required)	Step (Safety & PPE)
<p>OP100023 Step 14</p> 	<p>Tighten the front support screws.</p> <p>Further secure the support using 7 more screws (9 total), in the pre-made holes in the ECU support.</p>	<p>Cordless drill #2 Phillips driver bit</p>	
<p>OP100023 Step 15</p> 	<p>Apply silicone around the edges of the front and rear ECU supports, where they meet the panel. Tool the silicone to a smooth bead.</p> <p>Consult OP100020 Silicone application for additional details.</p>		
<p>OP100023 Step 16</p> 	<p>Test fit the ECU. Ensure it slopes 1/8" away from the air intake.</p>	<p>4 foot level</p>	
<p>Rear Air Intake Cabinets – Constructing the Rear Air Intake Duct</p>			



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Step (picture)	Step (Instructions)	Step (Tools Required)	Step (Safety & PPE)


Rear Air Intake Cabinets – ECU Positioning



<p>OP100023 Step 5</p> 	<p>Locate the ECU support at the rear of the cabinet.</p> <p>It should be centered on the rear wall.</p> <p><b>Note:</b> the rear air intake duct should be in place at this point.</p>	<p>Measuring tape</p>	
	<p>Adjust the height of the ECU support using the levelling feet to be tight to the rear intake duct.</p>		
	<p>Mark the location of the holes and remove the ECU stand. Drill a ¼” hole through the FRP only.</p>		
<p>OP100023 Step 7</p> 	<p>Apply silicone along the rear of the rear support.</p> <p>Replace against the wall and confirm it is still level side-to-side.</p>	<p>Caulking gun 4-foot level Laser line level</p>	


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Step (picture)	Step (Instructions)	Step (Tools Required)	Step (Safety & PPE)
<p>OP100023 Step 8</p> 	<p>Insert plastic drive rivets through the holes in the ECU support.</p> <p>Use a hammer to tap the rivet in.</p> <p>Secure the ECU support with 6 total plastic rivets, 3 on each side.</p>	<p>Cordless drill  <math>\frac{1}{4}</math>" Drill bit  Hammer</p>	
<p>OP100023 Step 2</p> 	<p>Before locating the front ECU support, determine the approximate height required for the ECU.</p> <p>For front air intake, the top of the front ECU support should be 28.5" from the bottom of the console housing.</p> <p><del>For a rear intake machine, the top of the front ECU support should be approximately 29.25" from the bottom of the console housing.</del></p> <p>Adjust the levelling feet on the front ECU support to meet this distance, and ensure the support is level.</p>	<p>Measuring tape  <math>\frac{1}{2}</math>" &amp; <math>\frac{3}{4}</math>" Wrenches  4-foot level</p>	






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Step (picture)	Step (Instructions)	Step (Tools Required)	Step (Safety & PPE)
OP100023 Step 3 	<p>Centre the front ECU support on the back of the console.</p> <p>Check by measuring the overhang on both sides of the console and ensuring it is equal.</p>	Measuring tape	
OP100023 Step 6 	<p>Using the levelling feet, ensure it is level and in-line with the front and support.</p> <p>It may be helpful to use a line level to project a line with which to level it to the front support.</p> <p>Also ensure the support is level side-to-side.</p>	Laser line level 4-foot level Measuring tape 1/2" & 3/4" Wrenches	




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Step (picture)	Step (Instructions)	Step (Tools Required)	Step (Safety & PPE)
<p>OP100023 Step 9</p> 	<p>For the front support, adjust again if necessary to ensure it is level and in line.</p> <p>Remove the screws.</p>	<p>Cordless drill #2 Phillips driver bit</p>	
<p>OP100023 Step 10</p> 	<p>Apply silicone to the backside (console side) of the front support.</p> <p>Put back in its location.</p>	<p>Caulking gun</p>	




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Step (picture)	Step (Instructions)	Step (Tools Required)	Step (Safety & PPE)
OP100023 Step 11 	Tighten the front support screws.  Further secure the support using 7 more screws. (9 total)	Cordless drill #2 Phillips driver bit	
OP100023 Step 12	Apply silicone around the edges of the front and rear ECU supports, where they meet the panel. Tool the silicone to a smooth bead.  Consult OP100020 Silicone application for additional details.		
OP100023 Step 13 	Test fit the ECU. Ensure it slopes 1/8" towards the air intake.	4 foot level	
ECU Installation			
OP100023 Step 14	Before fully installing the ECU in the cabinet, connect the hot and cold water lines to the ECU.		



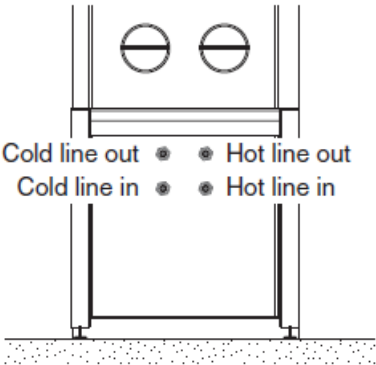
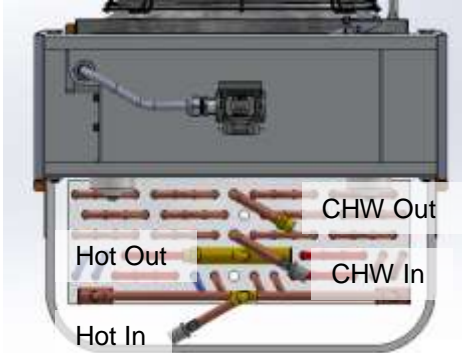
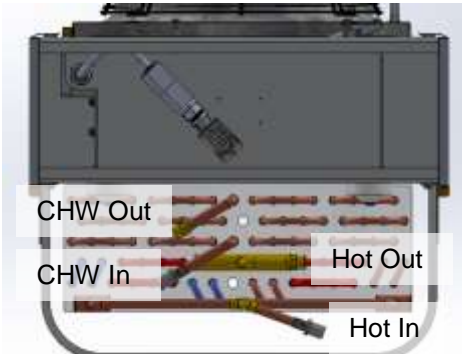
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Step (picture)	Step (Instructions)	Step (Tools Required)	Step (Safety & PPE)
OP100023 Step 15 	<p>Ensure the valves are off (valve handle perpendicular to direction of water flow).</p> <p>Remove the blue plug from the end of the ECU fitting.</p>	Pliers	
OP100023 Step 16 	<p>Apply a small amount of thread sealant to the threads on the connection hose.</p> <p>Ensure no thread sealant enters the fitting of the hose and is located on the threads only.</p>		
OP100023 Step 17 	<p>Screw gently into the fitting on the ECU and tighten with wrenches.</p> <p>Repeat for the 3 other hoses.</p>	7/8" wrenches	

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Step (picture)	Step (Instructions)	Step (Tools Required)	Step (Safety & PPE)
<p>OP100023 Step 18</p>   	<p>Place the ECU in the cabinet using the ECU dolly. Ensure it is stable on the ECU stands.</p> <p>For a front air intake machine, the ECU should be tight to the front of the cabinet.</p> <p>For a rear air intake machine, the ECU should be tight to the rear intake duct.</p> <p><b>Note:</b> On rear intake cabinets, the ECU is installed backwards (water connections facing the air duct).</p> <p><b>Note:</b> A rear intake ECU cannot be installed in a front intake cabinet and vice-versa.</p> <p><b>Note:</b> Install the ECU carefully, avoiding contact with the liquid tight connectors on the back of the console for the 24VDC systems.</p>	<p>4-foot level</p>	

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Step (picture)	Step (Instructions)	Step (Tools Required)	Step (Safety & PPE)
<p>OP100023 Step 19</p>   	<p>Connect the ECU hoses to the protruding pipe from the console by steadying the solenoid valve with one hand while you push the fitting onto the protruding pipe.</p> <p>The fitting will bottom out once it is fully seated on the pipe.</p> <p style="text-align: center;">Front Air Intake ECU</p>  <p style="text-align: center;">Rear Air Intake ECU</p> 		
<p>OP100023 Step 20</p>	<p>You may now proceed to outfitting the cabinet with add-ons and finishing the installation.</p> <p>If selected by the customer, the humidity system can now be installed.</p>		