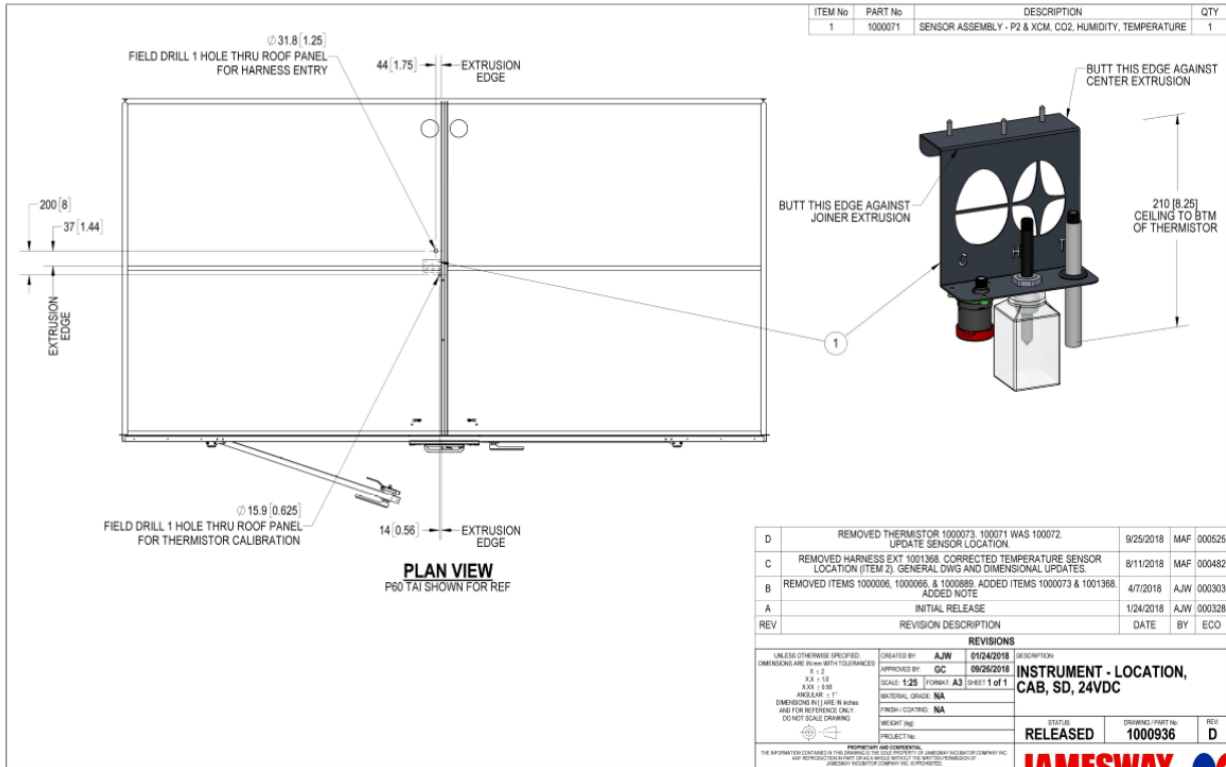
	Part Name / Description: Platinum 24V DC Incubators & Hatchers	Instruction #: OP100045	Page 1 of 8
	Operation Instruction Title: 24 V DC Console-Version Installation-Sensors, Harness, Console Air System and Light bar	Revision Date: 02/06/2019	Revised By: V. Frail
		Revision No. 0	Approved By: S. Ditner

Step (picture)	Step (Instructions)	Step (Tools Required)	Step (Safety & PPE)
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Sensor Mounting – Single Depth (1000936)




ITEM No	PART No	DESCRIPTION	QTY
1	1000071	SENSOR ASSEMBLY - P2 & XCM, CO2, HUMIDITY, TEMPERATURE	1

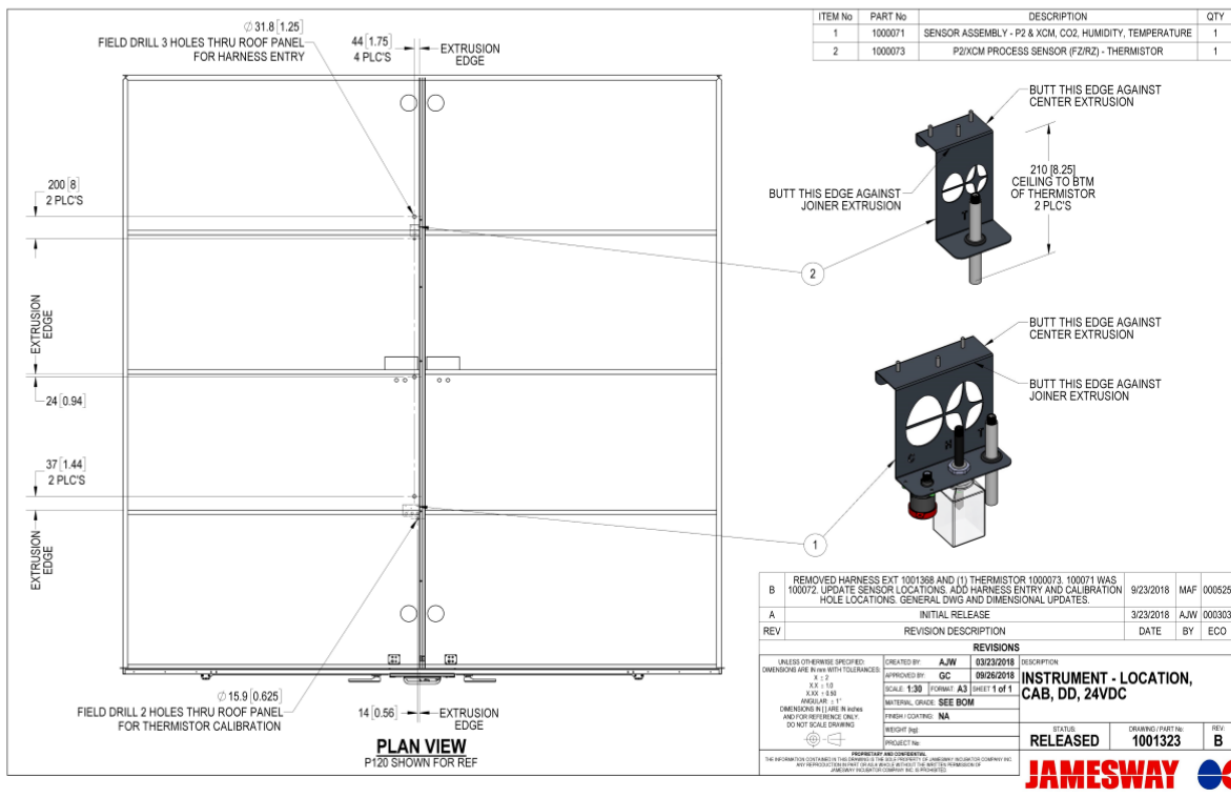
REV	REVISION DESCRIPTION	DATE	BY	ECO
D	REMOVED THERMISTOR 1000073. 100071 WAS 100072. UPDATE SENSOR LOCATION.	9/25/2018	MAF	000525
C	REMOVED HARNESS EXT 1001368. CORRECTED TEMPERATURE SENSOR LOCATION (ITEM 2). GENERAL DWG AND DIMENSIONAL UPDATES.	8/11/2018	MAF	000482
B	REMOVED ITEMS 1000006, 1000066, & 1000889. ADDED ITEMS 1000073 & 1001368. ADDED NOTE	4/7/2018	AJW	000303
A	INITIAL RELEASE	1/24/2018	AJW	000338

REVISIONS		DESCRIPTION
CREATED BY	AJW	01/24/2018
APPROVED BY	GC	09/26/2018
SCALE	1:25	FORMAT A3
MATERIAL GRADE	NA	
FINISH/COATING	NA	
WEIGHT	gms	
PROJECT No		

STATUS	RELEASED	DRAWING / PART No	1000936	REV	D
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JAMESWAY 

Sensor Mounting – Double Depth (1001323)





ITEM No	PART No	DESCRIPTION	QTY
1	1000071	SENSOR ASSEMBLY - P2 & XCM, CO2, HUMIDITY, TEMPERATURE	1
2	1000073	P2/XCM PROCESS SENSOR (F2/R2) - THERMISTOR	1


REV	REVISION DESCRIPTION	DATE	BY	ECO
B	REMOVED HARNESS EXT 1001368 AND (1) THERMISTOR 1000073. 100071 WAS 100072. UPDATE SENSOR LOCATIONS. ADD HARNESS ENTRY AND CALIBRATION HOLE LOCATIONS. GENERAL DWG AND DIMENSIONAL UPDATES.	9/23/2018	MAF	000525
A	INITIAL RELEASE	3/23/2018	AJW	000303


REVISIONS		DESCRIPTION
CREATED BY	AJW	03/23/2018
APPROVED BY	GC	09/26/2018
SCALE	1:50	FORMAT A3
MATERIAL GRADE	SEE BOM	
FINISH/COATING	NA	
WEIGHT	gms	
PROJECT No		


STATUS	RELEASED	DRAWING / PART No	1001323	REV	B
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JAMESWAY 

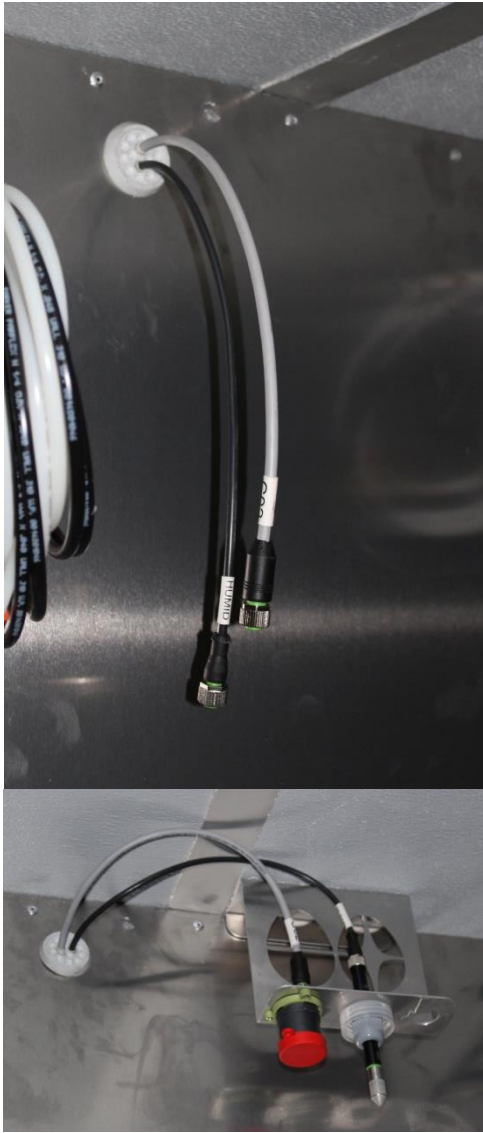
	Part Name / Description: Platinum 24V DC Incubators & Hatchers	Instruction #: OP100045	Page 2 of 8
	Operation Instruction Title: 24 V DC Console-Version Installation-Sensors, Harness, Console Air System and Light bar	Revision Date: 02/06/2019	Revised By: V. Frail
		Revision No. 0	Approved By: S. Ditner


Step (picture)	Step (Instructions)	Step (Tools Required)	Step (Safety & PPE)
Sensor Bracket Mounting Procedure			
OP100045 Step 1	<p>Locate the sensor bracket according to the relevant diagram above. Mark the location.</p> <p>Drill a 1-1/4" hole for the harness with equipped grommets.</p>		
OP100045 Step 2	Apply silicone to the top panel of the bracket.		
OP100045 Step 3	Replace the bracket and install using 3x P6200 self-drilling screws.		
OP100045 Step 4	Silicone around the outer edges of the bracket.		
Harness Installation			
OP100045 Step 5 	<p>Pull the harness through the hole in the top of the console.</p> <p>Leave a small loop of slack at the bottom of the console.</p> <p>Note: do not install the grommets at this point.</p> <p>Note: make the connections starting from the rear of the cabinet forward to ensure enough slack in the harness to reach the rear connections.</p> <p>Note: If there are two 32mm holes in the console, use the left hole. The right hole can be used in conjunction with the supplied liquid tight for the mains power.</p>		

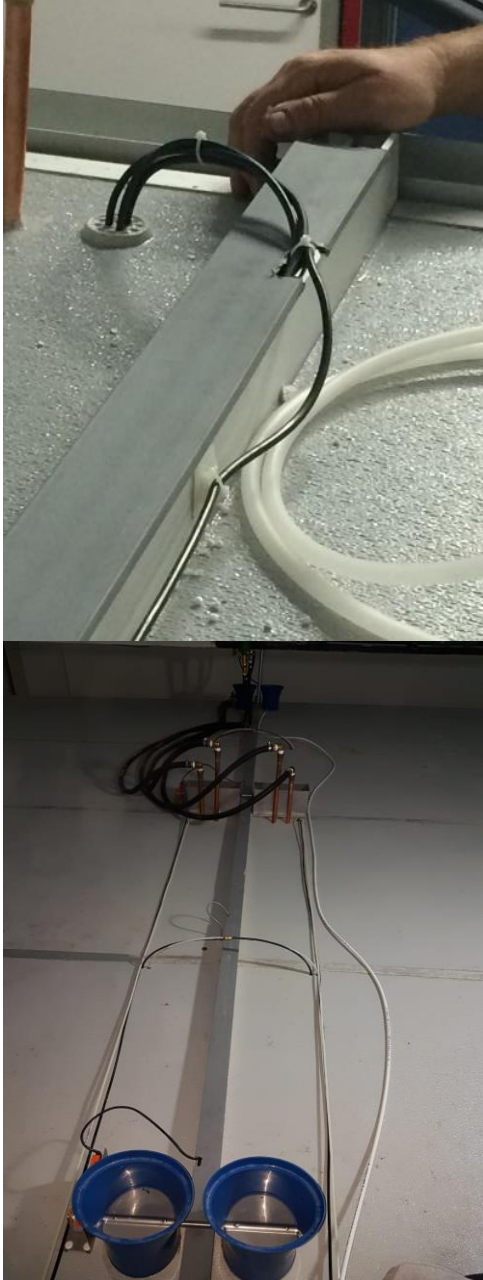
	Part Name / Description: Platinum 24V DC Incubators & Hatchers	Instruction #: OP100045	Page 3 of 8
	Operation Instruction Title: 24 V DC Console-Version Installation-Sensors, Harness, Console Air System and Light bar	Revision Date: 02/06/2019	Revised By: V. Frail
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Step (picture)	Step (Instructions)	Step (Tools Required)	Step (Safety & PPE)
OP100045 Step 6	<p>Tuck the harness into the center roof extrusion over the side.</p> <p>Note: The harness must come over the side, not through the front of the extrusion.</p>		
OP100045 Step 7 	<p>Install the rear dampers and damper motor if not already installed, consulting OP100027.</p> <p>Insert the plug into the rear damper motor.</p> <p>Anchor the cable if necessary with cable ties and adhesive cable tie anchors.</p>		
OP100045 Step 8	<p>If the unit is a powered exhaust hatcher, consult OP100035 for connection details.</p>		
OP100045 Step 9	<p>If a double depth cabinet, ensure the rear zone temperature sensor has been mounted in place. Connect to the rear zone temperature sensor.</p> <p>Ensure the grommets are securely seated both inside and outside the cabinet. Press firmly in the center once seated to tighten the connection.</p>		
OP100045 Step 10	<p>If the cabinet is double depth, ensure the center ECU stand is in place.</p> <p>Refer to procedure OP100039.</p>		

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		Revision No. 0	Approved By: S. Ditner

Step (picture)	Step (Instructions)	Step (Tools Required)	Step (Safety & PPE)
OP100045 Step 11	<p>Ensure the front temperature sensor has been mounted in place. Connect to the front temperature sensor.</p> <p>Ensure the grommets are securely seated both inside and outside the cabinet. Press firmly in the center once seated to tighten the connection.</p>		
OP100045 Step 12 	<p>Connect to the front or single zone humidity and carbon dioxide sensors.</p> <p>Fold the interior grommet in half and pass through the hole along with the sensor connectors.</p> <p>Connect the humidity sensor plug and tighten the connection. Connect the CO₂ sensor plug and tighten the connection.</p> <p>Thread the cables for each sensor back through the grommet for a minimal amount of slack.</p> <p>Insert the grommet into the hole in the panel.</p> <p>Insert the grommet on the panel on the roof side, and tuck the rest of the cable into the center roof extrusion.</p>		
OP100045 Step 13	<p>If the cabinet has a damper located at the front of the top of the cabinet, complete this connection.</p>		

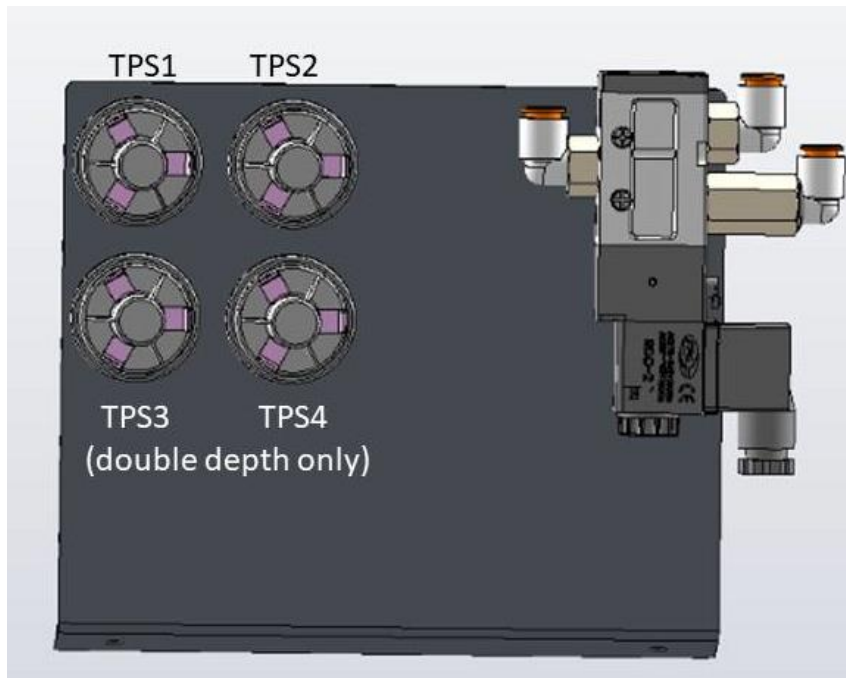
	Part Name / Description: Platinum 24V DC Incubators & Hatchers	Instruction #: OP100045	Page 5 of 8
	Operation Instruction Title: 24 V DC Console-Version Installation-Sensors, Harness, Console Air System and Light bar	Revision Date: 02/06/2019	Revised By: V. Frail
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Step (picture)	Step (Instructions)	Step (Tools Required)	Step (Safety & PPE)
<p>OP100045 Step 14</p> 	<p>Modify the center roof extrusion covers to allow the harness to pass into the cable channels cleanly.</p> <p>Anchor any loose wires using cable ties and adhesive cable tie anchors.</p>		
<p>ECU Connection</p>			
<p>OP100045 Step 15</p>	<p>Thread each ECU cable through the provided liquid tight connectors into the console, and then up into the control panel.</p>		

	Part Name / Description: Platinum 24V DC Incubators & Hatchers	Instruction #: OP100045	Page 6 of 8
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Step (picture)	Step (Instructions)	Step (Tools Required)	Step (Safety & PPE)
OP100045 Step 16	Wire to the console, matching number locations.		
OP100045 Step 17	Tighten the liquid tight fittings fully by hand first and then with the appropriate wrenches.		

Console Air Systems Installation




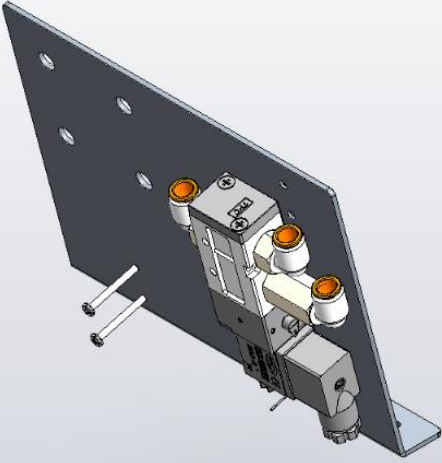
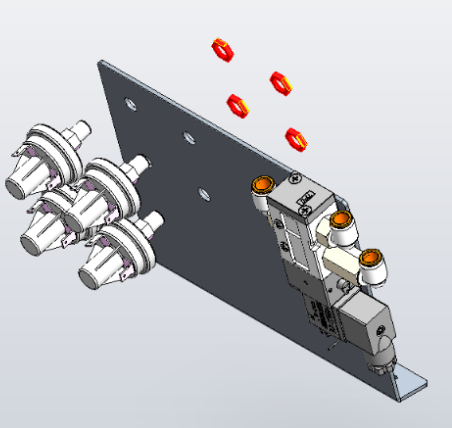
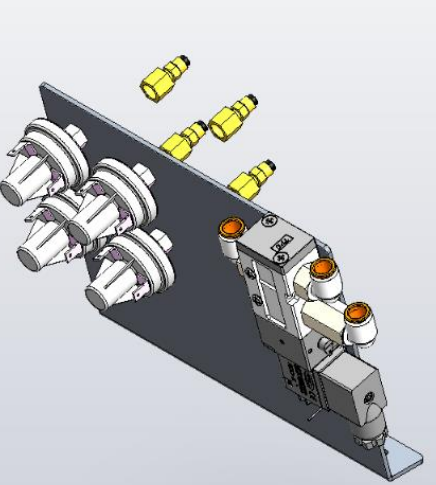
The following packs will be supplied:


Machine Type	Part Number
Single Depth	1001850
Double Depth	1001224

Pressure Switch	Senses	Pressure Tubing Color
TPS1	Front Left	Black
TPS2	Front Right	White
TPS3	Rear Left	Black
TPS4	Rear Right	White

OP100045 Step 18	Wire to the pneumatic valve using cable SOL1 from the harness.										
<table border="1"> <thead> <tr> <th>Wire</th> <th>Location on DIN Plug</th> </tr> </thead> <tbody> <tr> <td>0267</td> <td>DIN – 2</td> </tr> <tr> <td>0267A</td> <td>DIN – 1</td> </tr> <tr> <td>Green</td> <td>DIN – Ground – 3</td> </tr> </tbody> </table>				Wire	Location on DIN Plug	0267	DIN – 2	0267A	DIN – 1	Green	DIN – Ground – 3
Wire				Location on DIN Plug							
0267				DIN – 2							
0267A	DIN – 1										
Green	DIN – Ground – 3										

	Part Name / Description: Platinum 24V DC Incubators & Hatchers	Instruction #: OP100045	Page 7 of 8
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Step (picture)	Step (Instructions)	Step (Tools Required)	Step (Safety & PPE)
OP100045 Step 19 	<p>Use 2x 1001259 pan head screws to mount the 1000923 Pneumatic valve on the supplied bracket inside the console.</p> <p>Note: It is recommended to remove the bracket and install the pressure switches and pneumatic valve, and then reinstall the bracket.</p>		
OP100045 Step 20 	<p>Use P3248 washers to mount the PB30844 pressure switches.</p> <p>Note: there will be 4 pressure switches for a double depth machine, and 2 for a single depth machine.</p> <p>Mount as shown above.</p> <p>Start with the bottom right pressure switch to allow easy access to all switches.</p>	9/16" Socket and Wrench	
OP100045 Step 21 	<p>Attach a PB1808 brass connector to each pressure switch.</p>	Wrenches	

	Part Name / Description: Platinum 24V DC Incubators & Hatchers	Instruction #: OP100045	Page 8 of 8
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		Revision No. 0	Approved By: S. Ditner

Step (picture)	Step (Instructions)	Step (Tools Required)	Step (Safety & PPE)															
OP100045 Step 22 <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: black; color: white;">Pressure Switch</th> <th style="background-color: black; color: white;">Senses</th> <th style="background-color: black; color: white;">Pressure Tubing Color</th> </tr> </thead> <tbody> <tr> <td>TPS1</td> <td>Front Left</td> <td>Black</td> </tr> <tr> <td>TPS2</td> <td>Front Right</td> <td>White</td> </tr> <tr> <td>TPS3</td> <td>Rear Left</td> <td>Black</td> </tr> <tr> <td>TPS4</td> <td>Rear Right</td> <td>White</td> </tr> </tbody> </table>	Pressure Switch	Senses	Pressure Tubing Color	TPS1	Front Left	Black	TPS2	Front Right	White	TPS3	Rear Left	Black	TPS4	Rear Right	White	Connect the tubing to the pressure switches.		
Pressure Switch	Senses	Pressure Tubing Color																
TPS1	Front Left	Black																
TPS2	Front Right	White																
TPS3	Rear Left	Black																
TPS4	Rear Right	White																
OP100045 Step 23 Port P – supply - white Port A – Black Port B – White Black on Top White to the Side	Connect the tubing to the pneumatic valve. For a double depth cabinet, the Port A and Port B connections will have a tee on the 3/8" line, and the matching color tubing, one for the front zone and one for the rear zone, will be installed into the tee.	Tubing Cutters																
OP100045 Step 24 <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: black; color: white;">Switch</th> <th style="background-color: black; color: white;">Wire to C</th> <th style="background-color: black; color: white;">Wire to NO</th> </tr> </thead> <tbody> <tr> <td>TPS1</td> <td>0247</td> <td>0247A</td> </tr> <tr> <td>TPS2</td> <td>0247</td> <td>0248</td> </tr> <tr> <td>TPS3</td> <td>0247</td> <td>0250</td> </tr> <tr> <td>TPS4</td> <td>0247</td> <td>0251</td> </tr> </tbody> </table>	Switch	Wire to C	Wire to NO	TPS1	0247	0247A	TPS2	0247	0248	TPS3	0247	0250	TPS4	0247	0251	Wire to the pressure switches.		
Switch	Wire to C	Wire to NO																
TPS1	0247	0247A																
TPS2	0247	0248																
TPS3	0247	0250																
TPS4	0247	0251																
OP100045 Step 25	Complete the cabinet drops following OP100030.																	
Light Bar																		
OP100045 Step 26	Install the light bar, centered in the cabinet and on the center roof extrusion, using 2 Philips #8x3/4" screws. There will be one light for each zone on a double depth cabinet.																	
OP100045 Step 27	Connect the light bar plug to the light. Ensure tightly connected.																	