



Date: April 12, 2011

To: Cleveland Community College

Project:

Attn:

Recommended Equipment:

(9) sets standard WB-6055 (2 booths side-by-side) with 7.5HP, 4 cartridges top mount dust collector on booth top (per two booths)

(4) sets smaller booth WB-6055 (2 booths side-by-side) with 7.5HP, 4 cartridges top mount dust dust collector on booth top (per two booths)

Avani Environmental Intl. Inc.
95 Cypress Drive
Youngsville, NC 27596
www.avanienvironmental.com

Phone: (919) 570-2862
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www.weldingbooths.com

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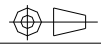






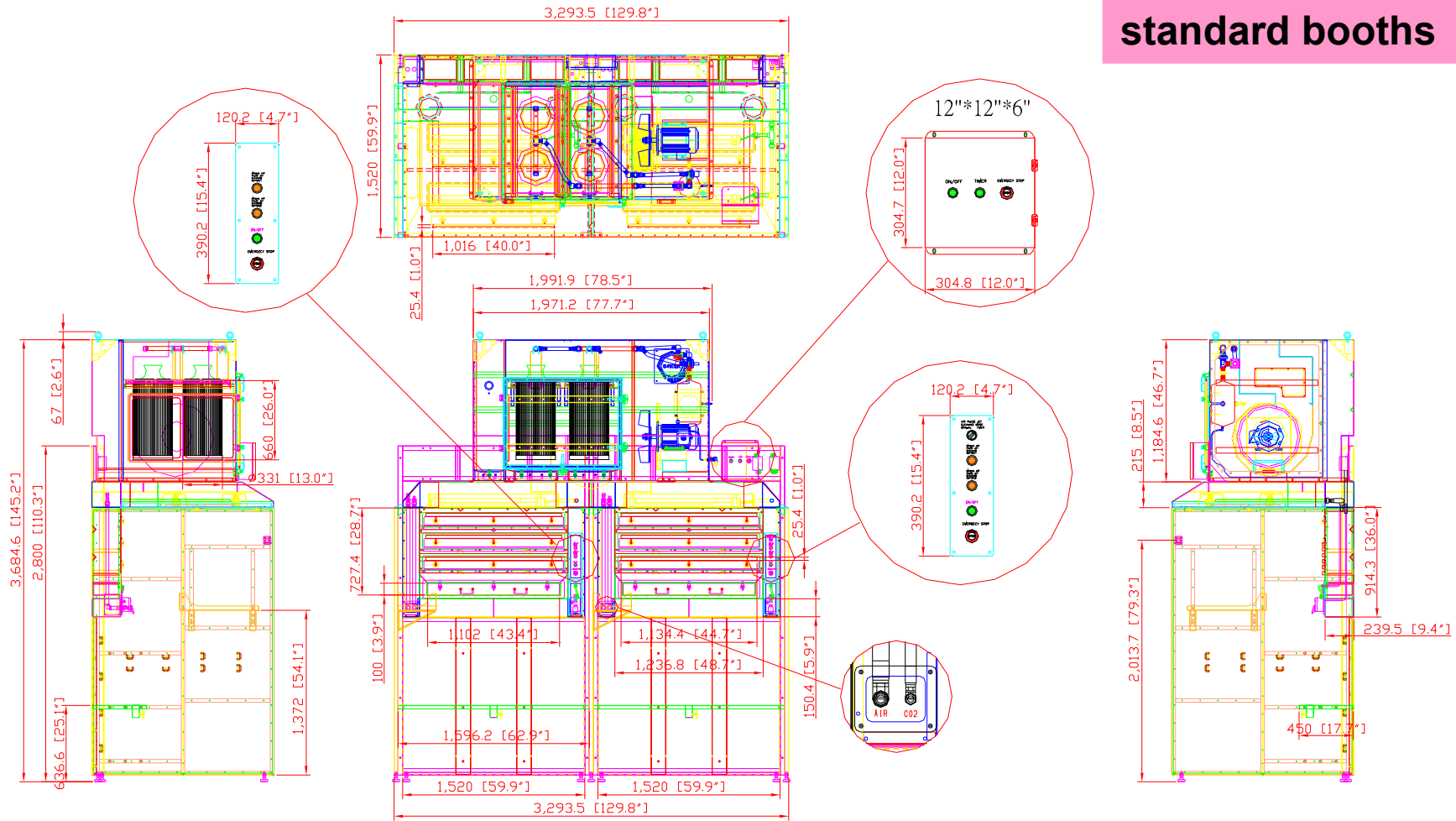
DO NOT SCALE

IF IN DOUBT ASK



Revisions			
Rev	Description	Date	Approved

standard booths



AVANI ENVIRONMENTAL INTL. INC. Sales Department
 95 Cypress Drive (919) 570-2862
 Youngsville, NC 27596 info@avanienvironmental.com

Date	Name	Part Number:
2009-12-18	***	CCC
Drawn by:	Checked by:	

Title: WB-5x5P(2 sets) with SDC-B-7-4

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Size	Scale	Drawing Number:
A	1 = 35	WB-5-5P (two)

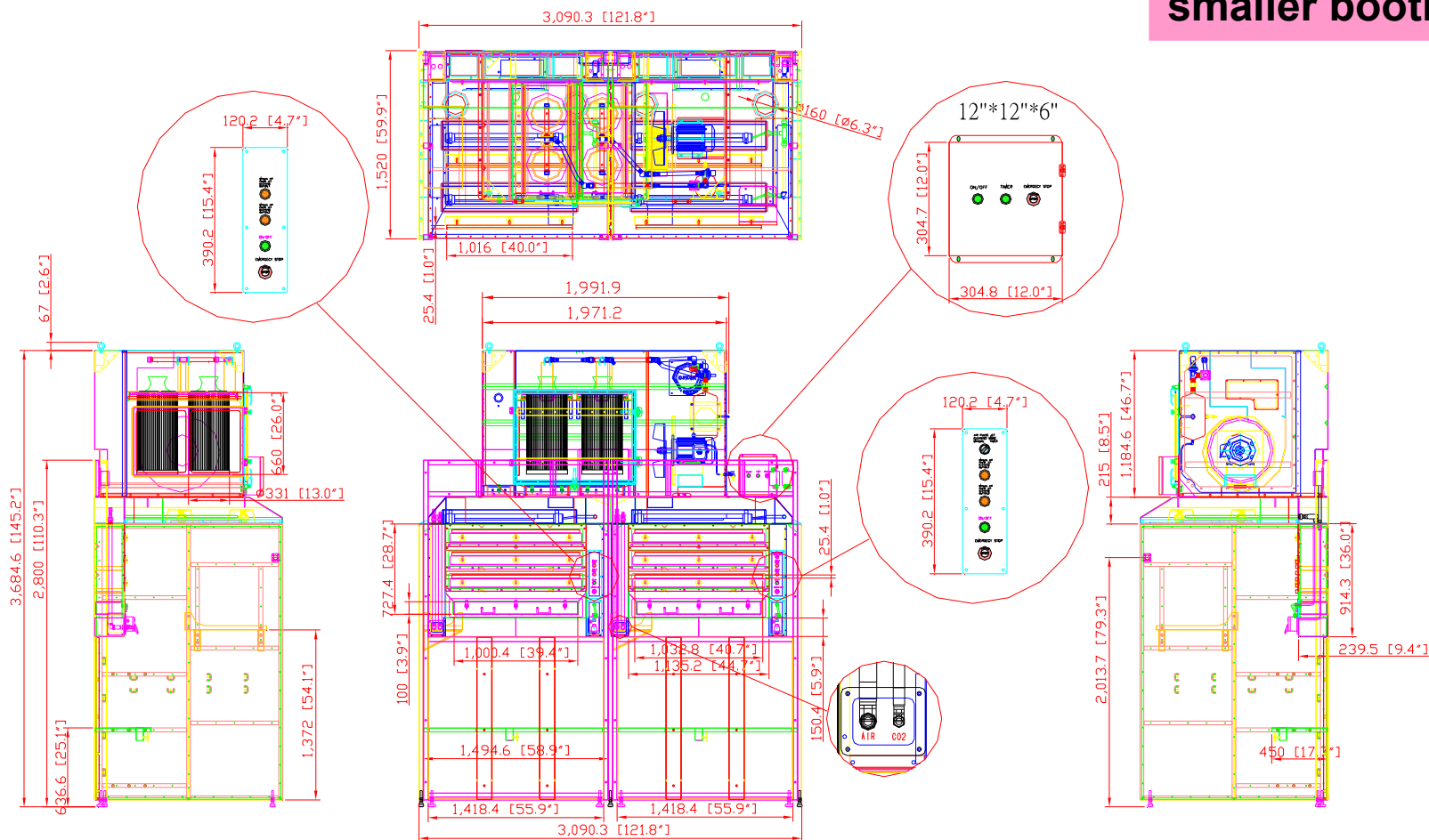
DO NOT SCALE

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Revisions			
Rev	Description	Date	Approved

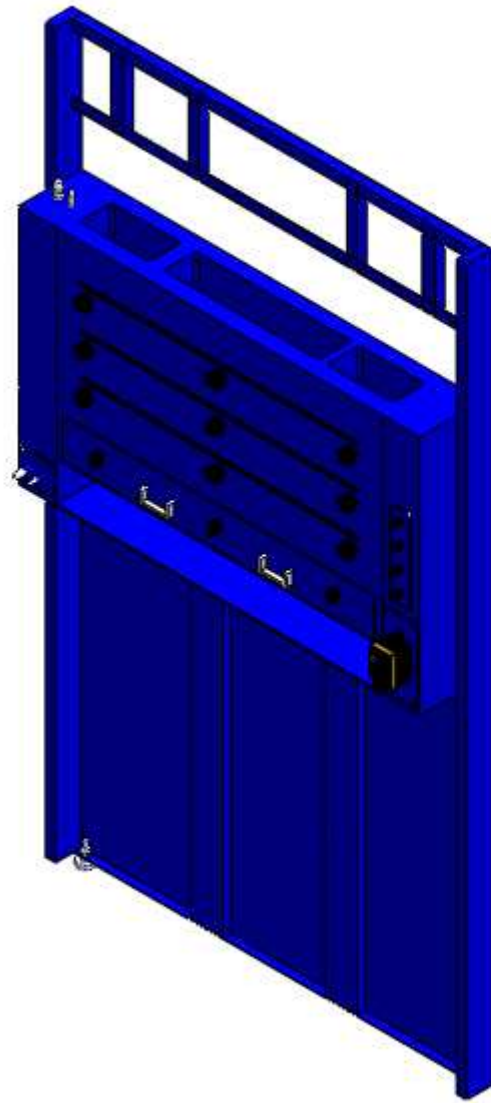
smaller booths

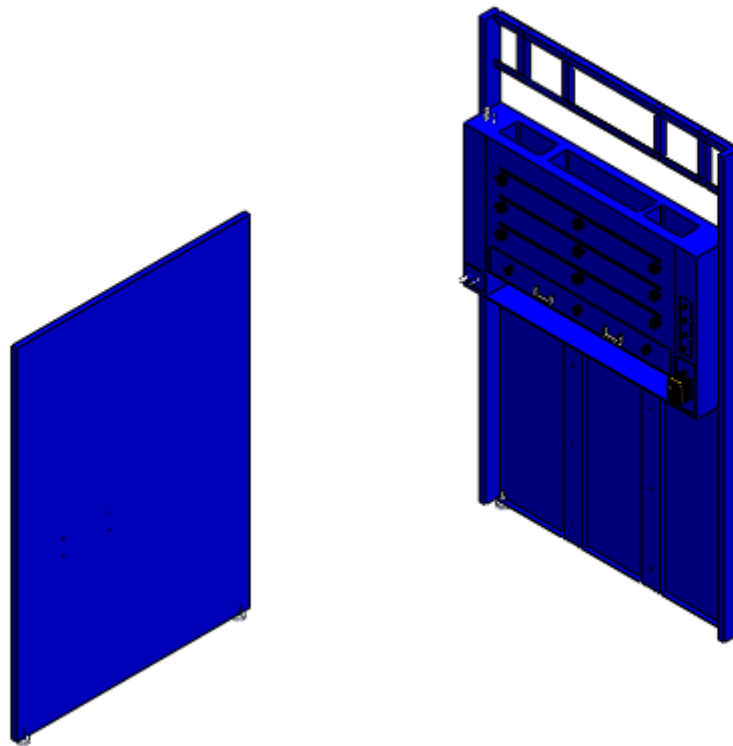


AVANI ENVIRONMENTAL INTL. INC. Sales Department
 95 Cypress Drive (919) 570-2862
 Youngville, NC 27596 info@avanienvironmental.com

Date	Name	Part Number:	Title:
2010-05-25	***	Cleveland	WB-5x5P-SB (2 sets) with SDC-B-7-4SB
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			B

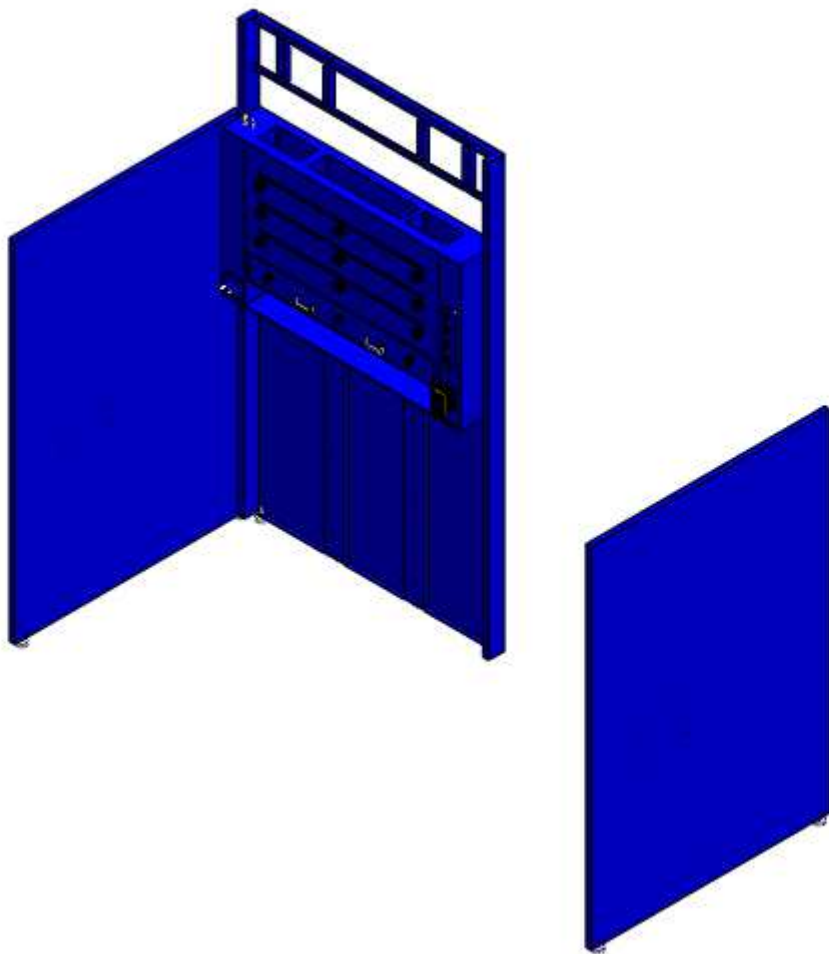
Scale	Drawing Number:
1 = 63	WB-5-5P (two)-1

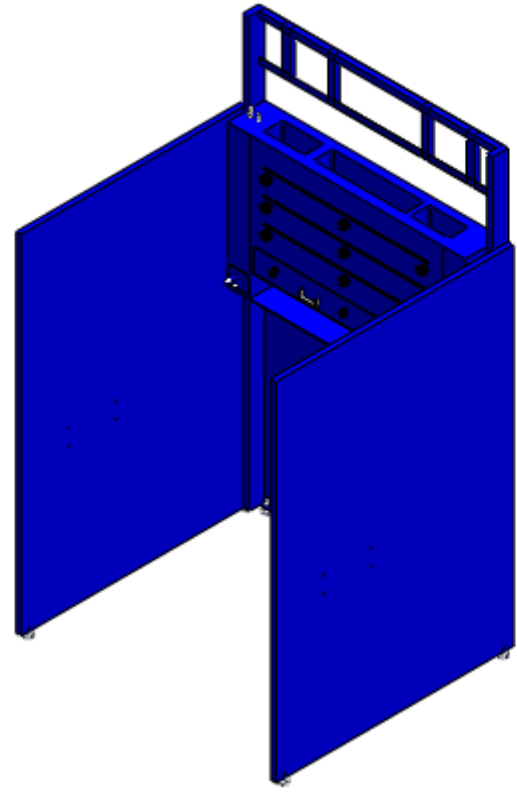


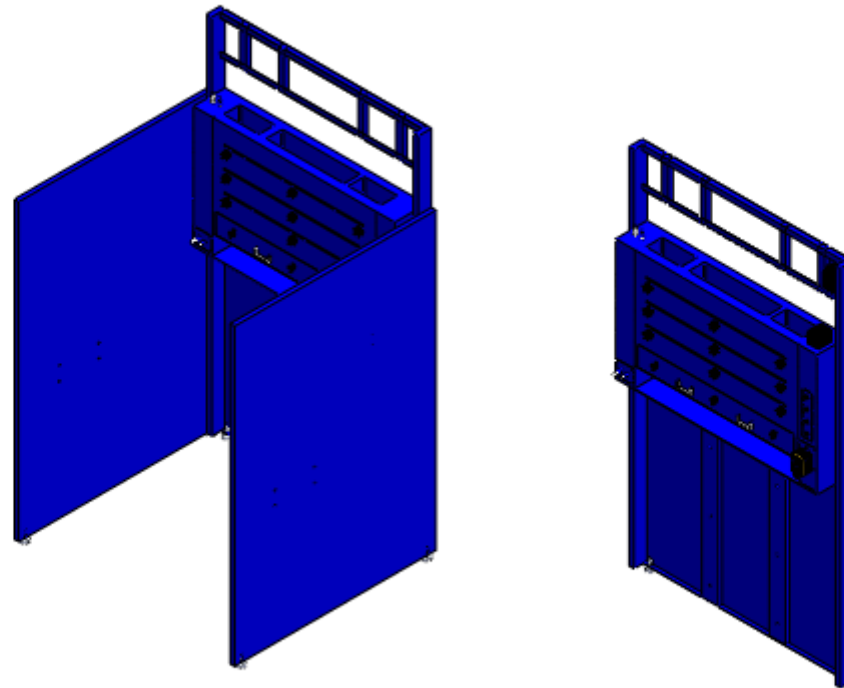


Hardware Bag 2

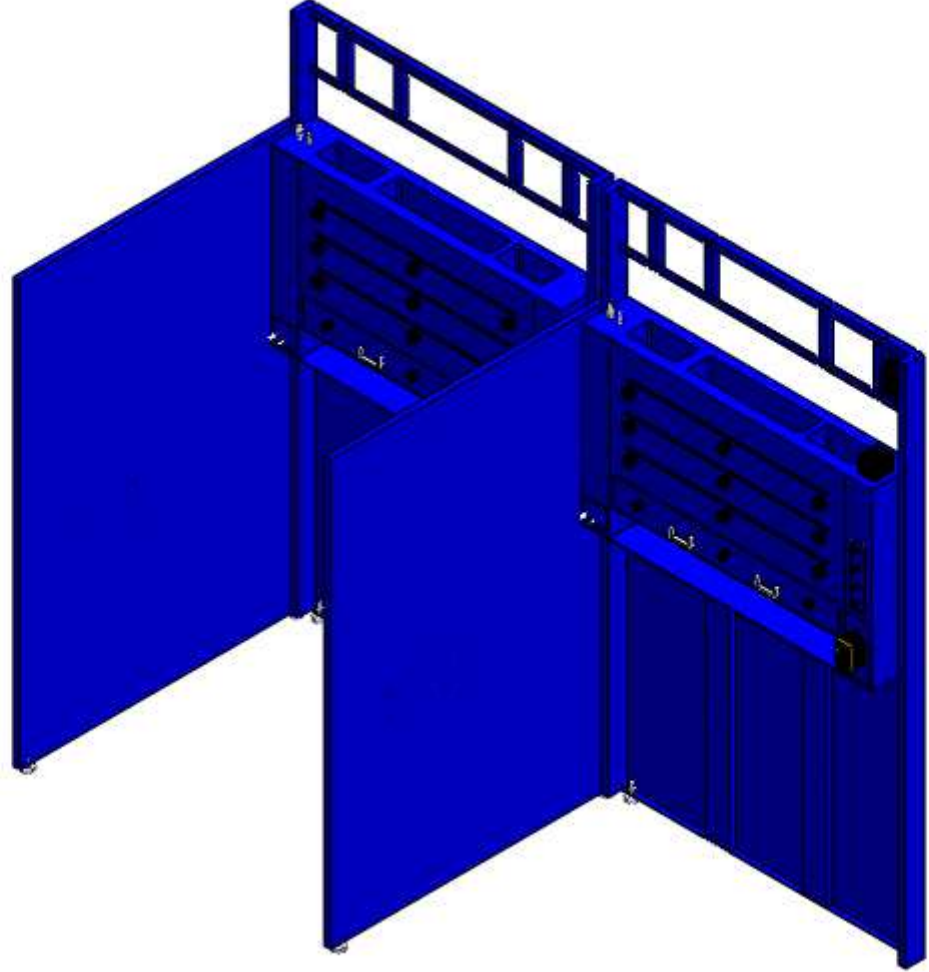


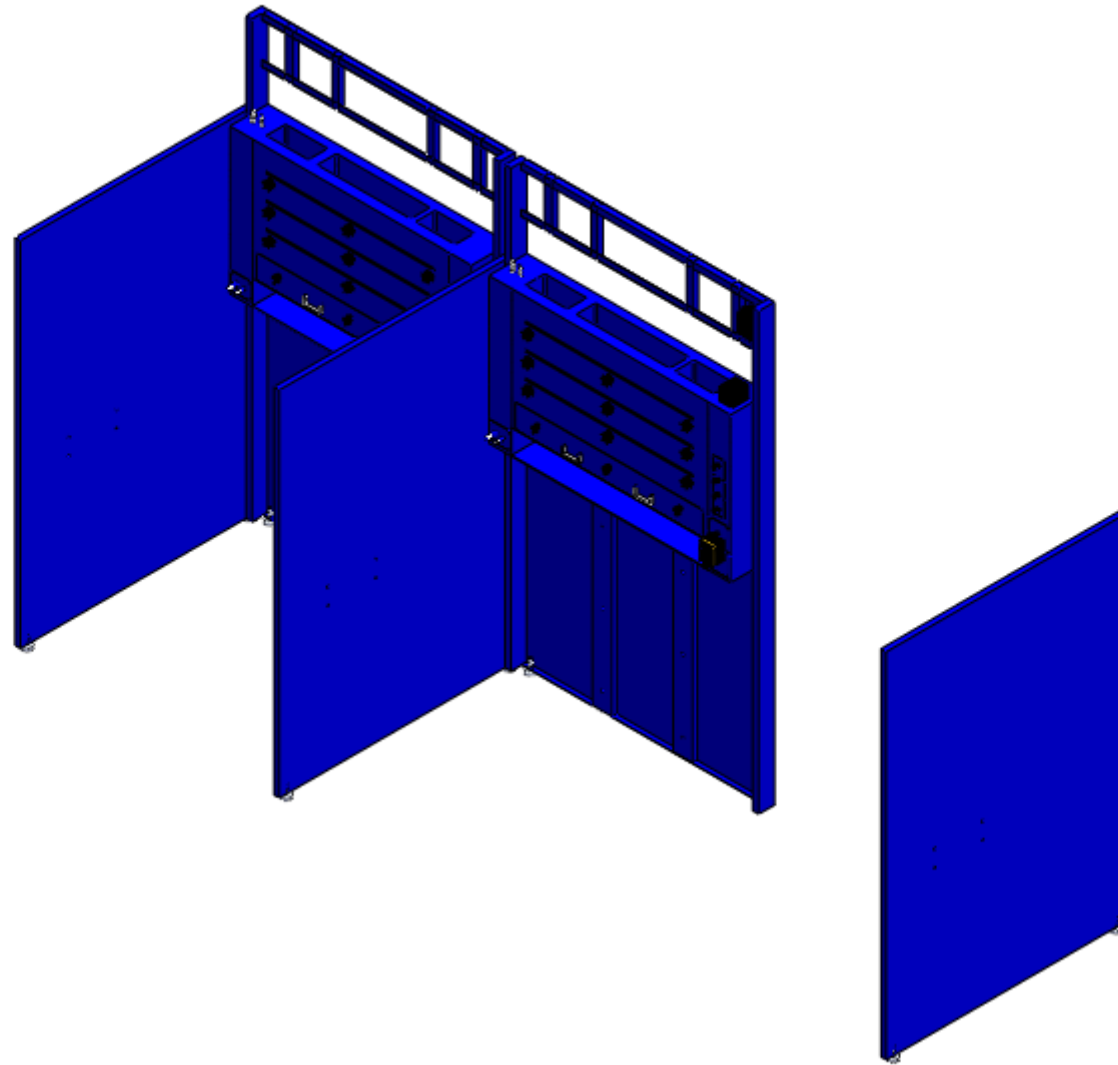




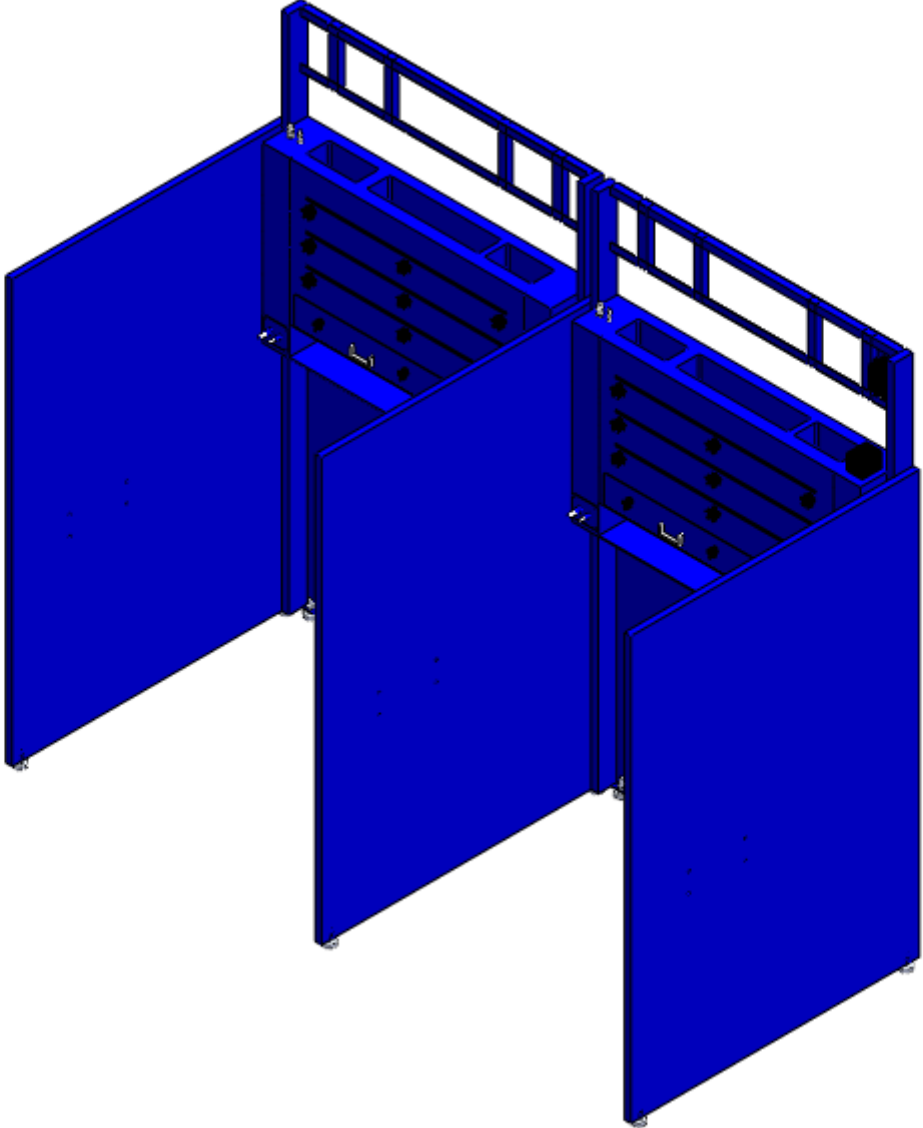


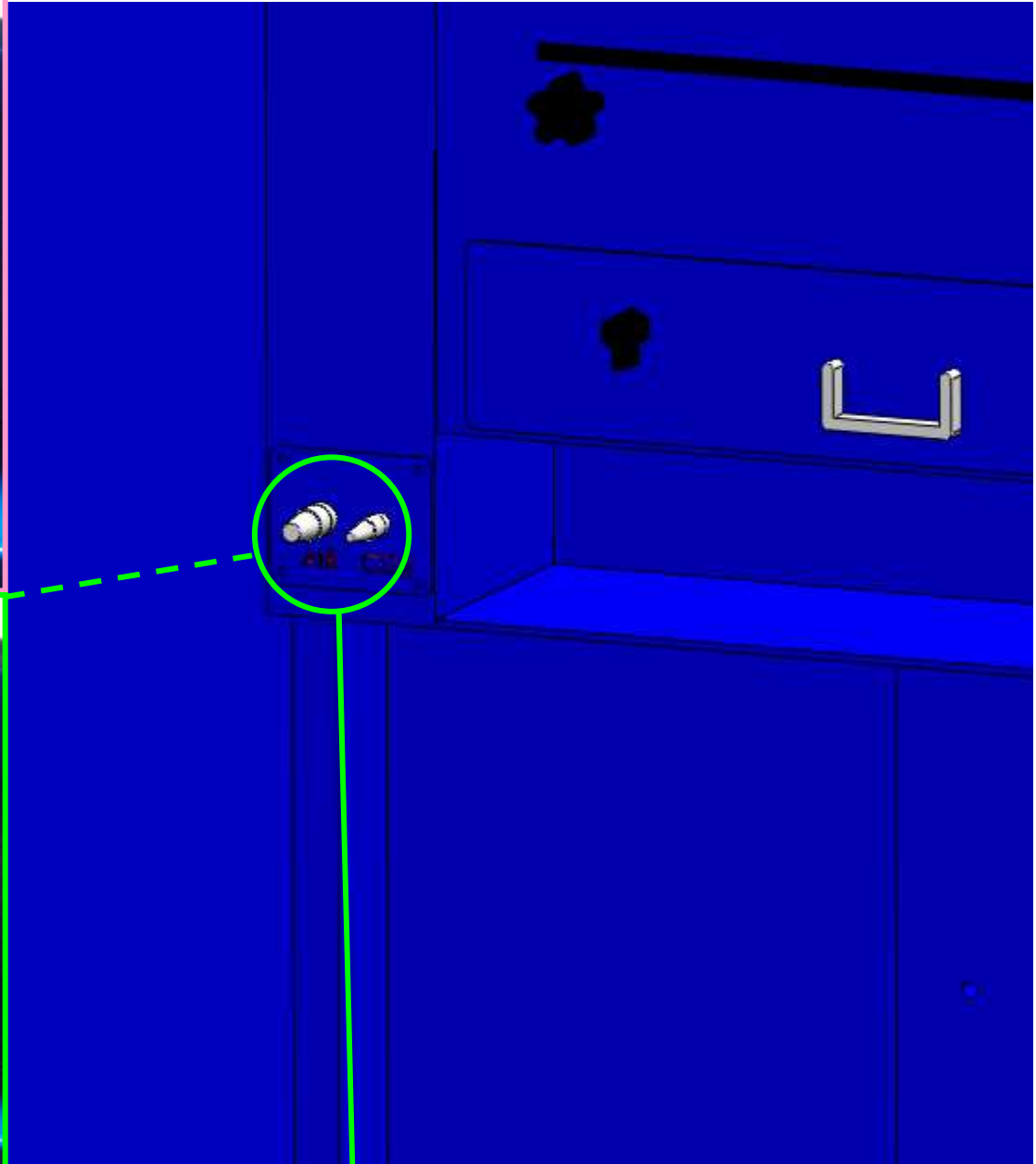
Hardware Bag 1





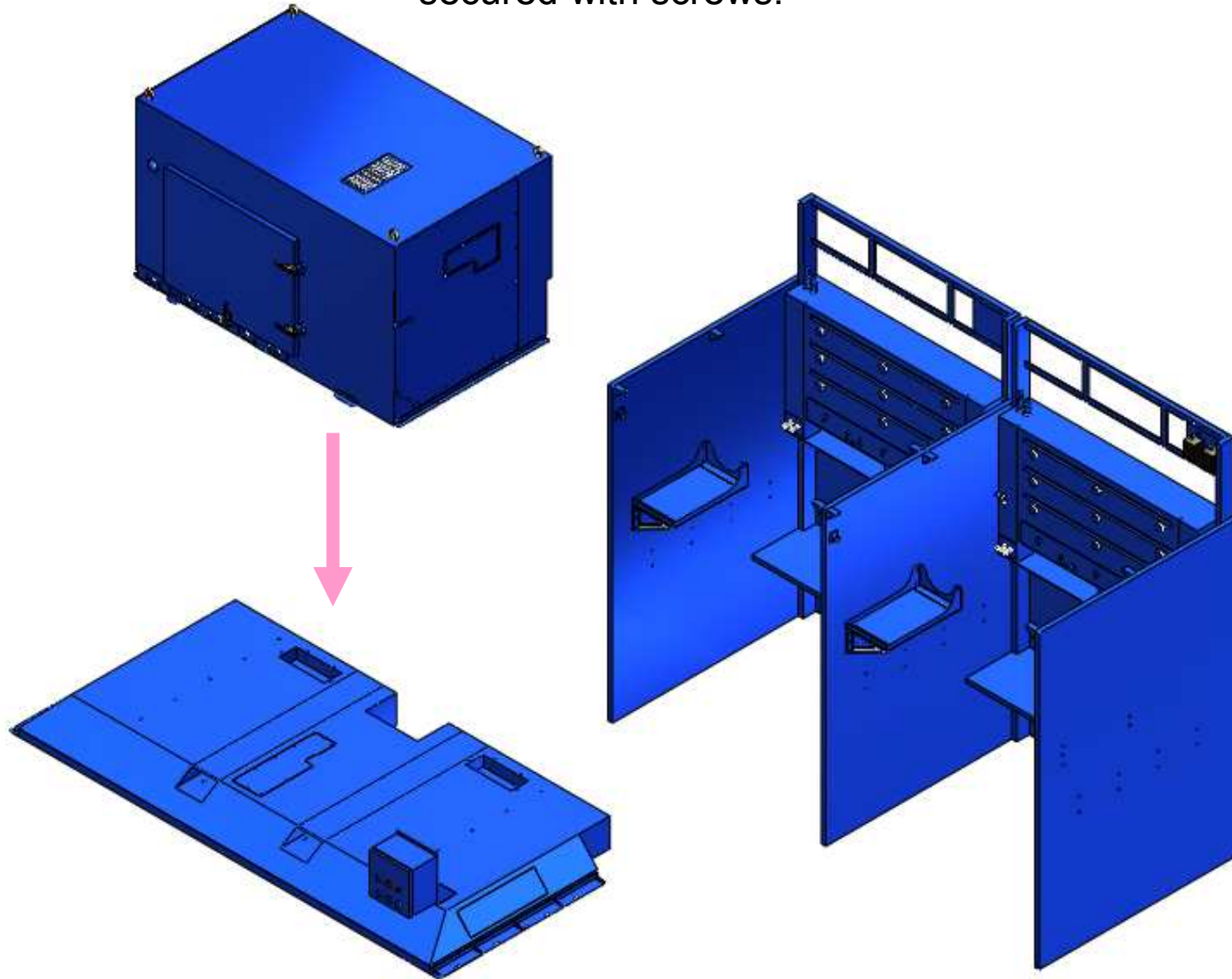
Hardware Bag 2



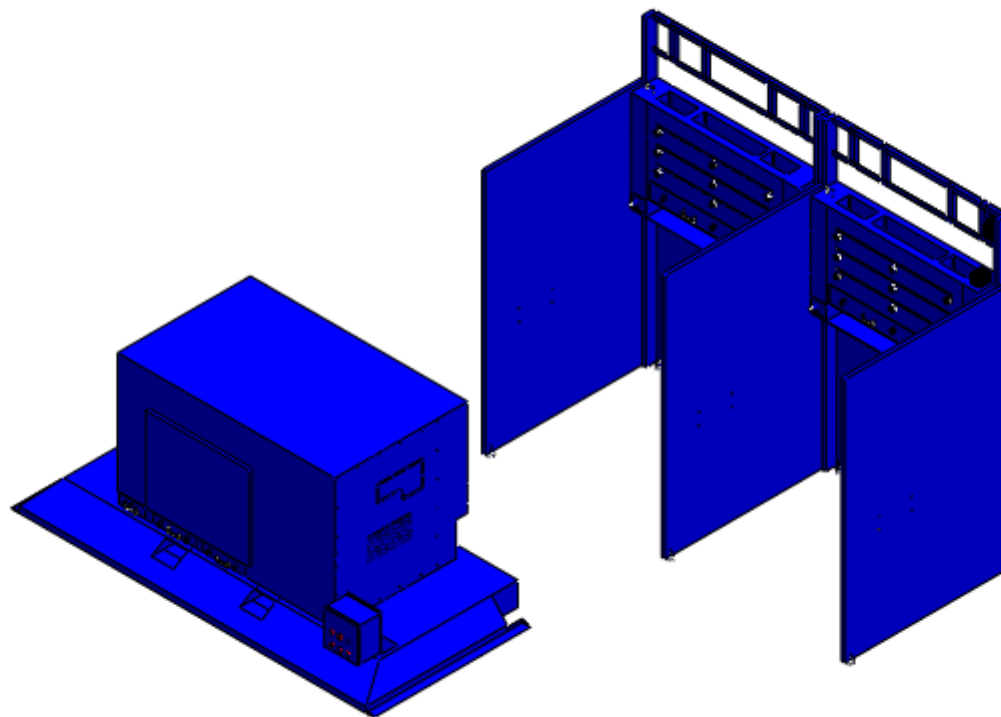


CO2 and air compressor connector

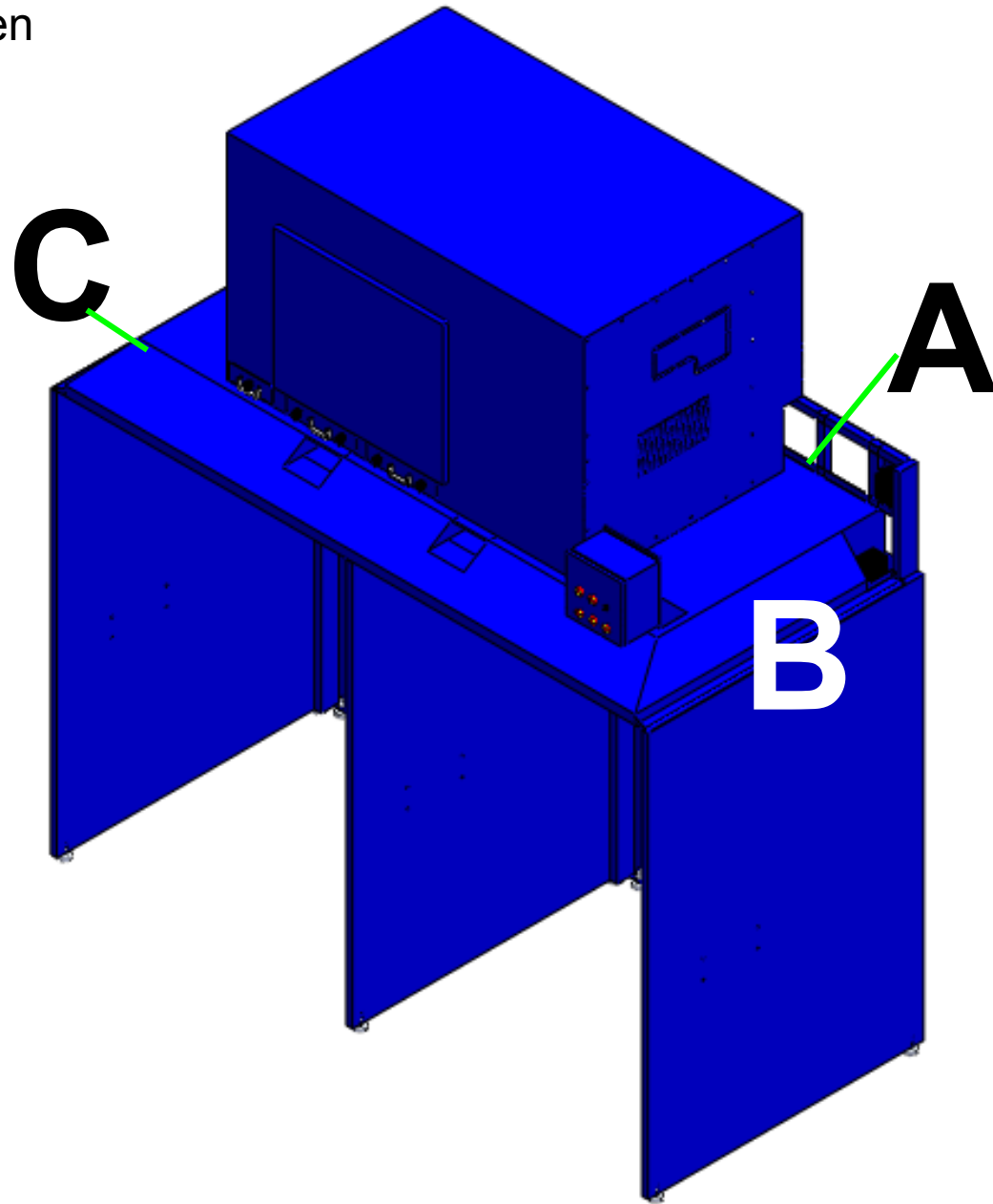
- Place the top mount dust collector TMC-7-4 on the top hood draft. Ensure that it sits properly and is secured with screws.



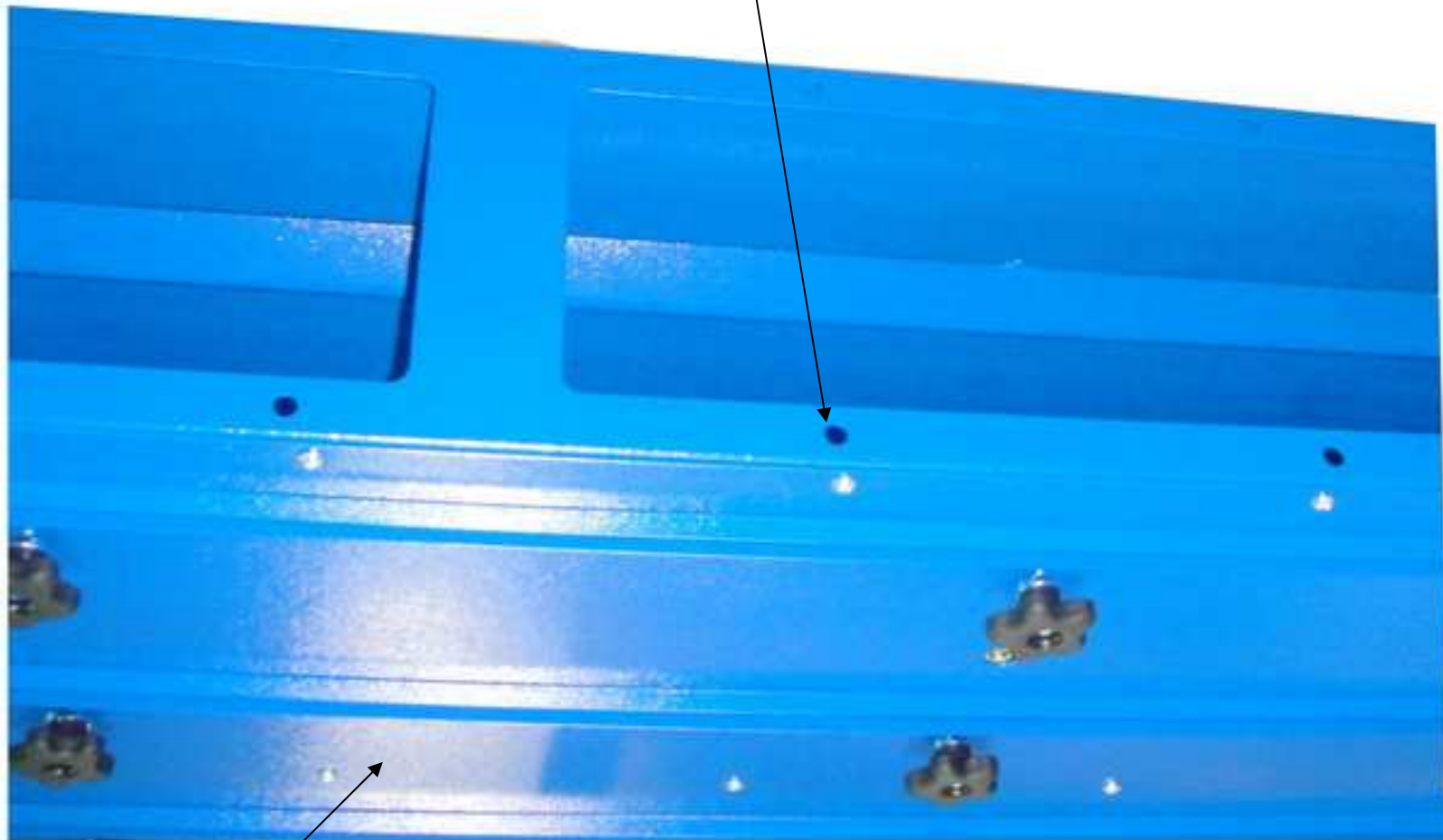
- Place the TMC-7-4 and the top hood draft above the booths.



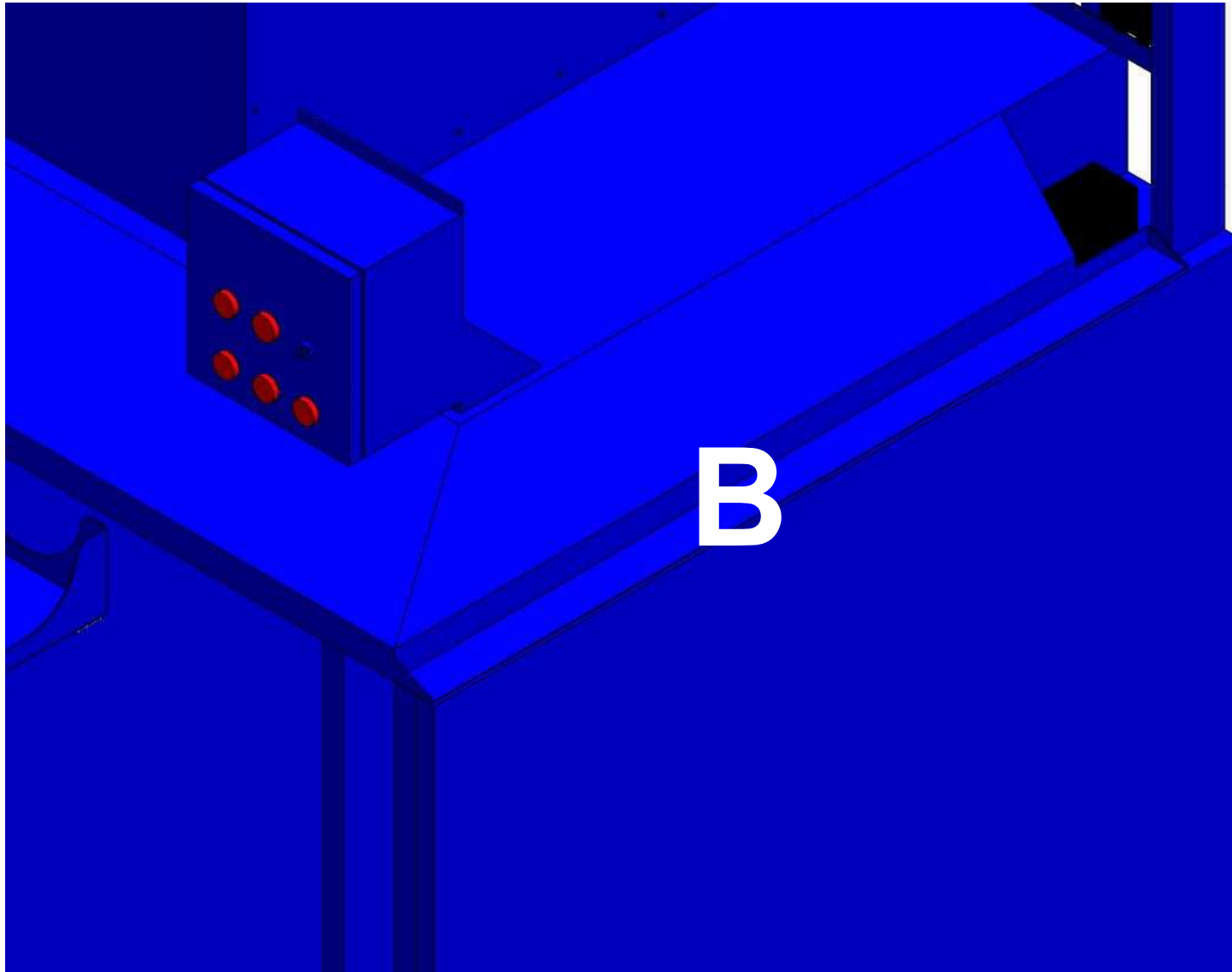
•Follow steps A, B, and C completely and fasten screws afterwards.



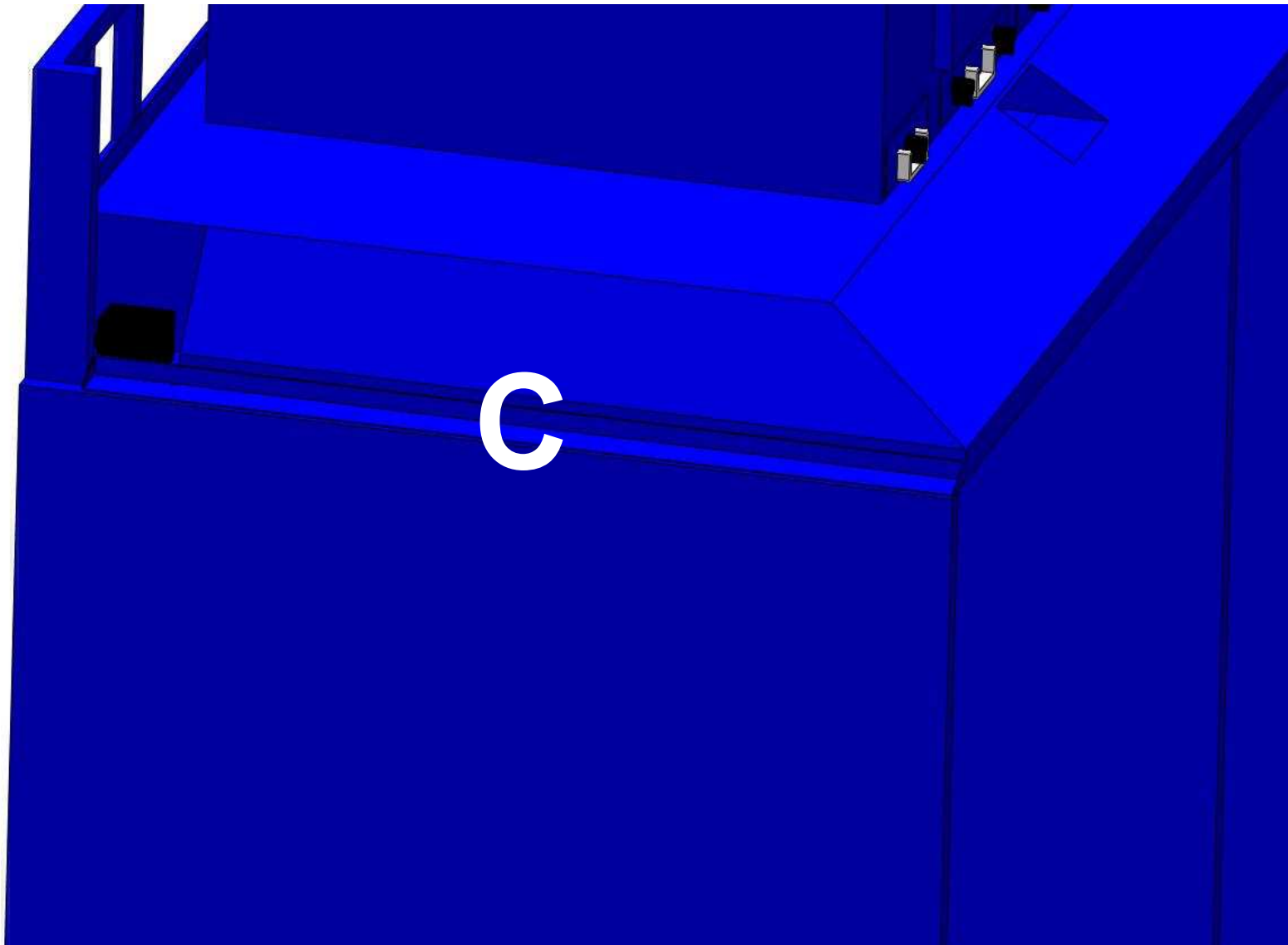
A2: Match the bolt patterns of the upper part of the backdraft to the bolt patterns of the TMC-7-4.



A1: Take off the front panel of the backdraft module.

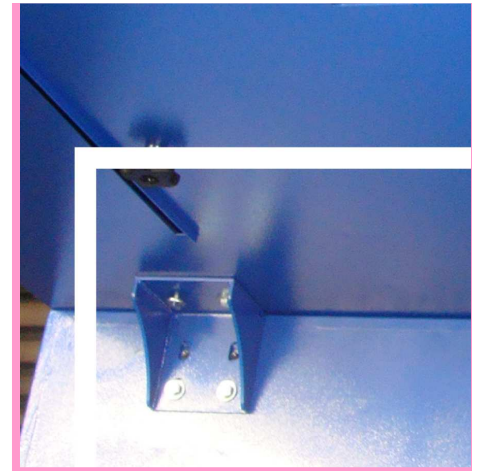


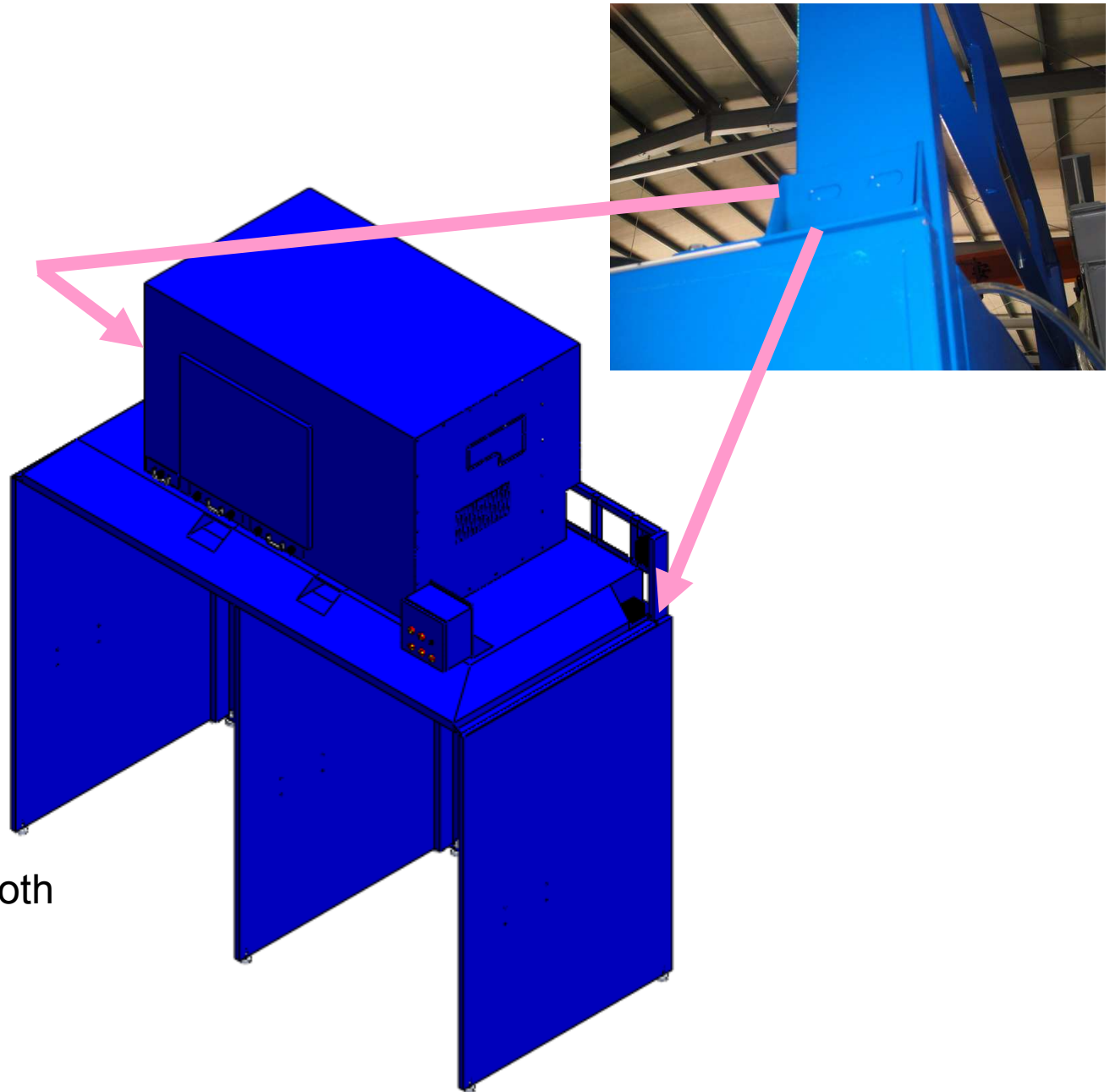
B: adjust the feet to ensure that the bolt patterns of the side panel match to the bolt patterns of the top hood draft.



C: adjust the feet to ensure that the bolt patterns of the side panel match to the bolt patterns of the top hood draft.

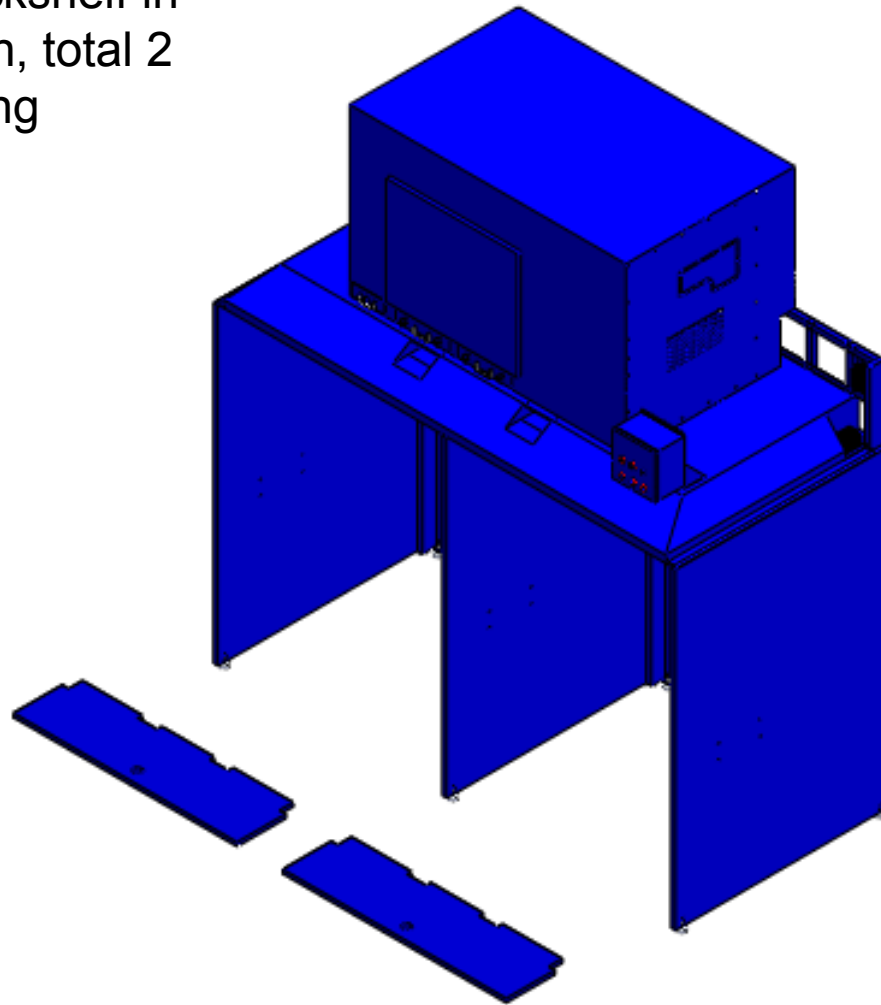
- Attach the hypotenuse corner gussets bases at the panels, below the top hood draft, 2 pcs on each panel side, total 8 pcs for the two booths sitting together (pink circles).

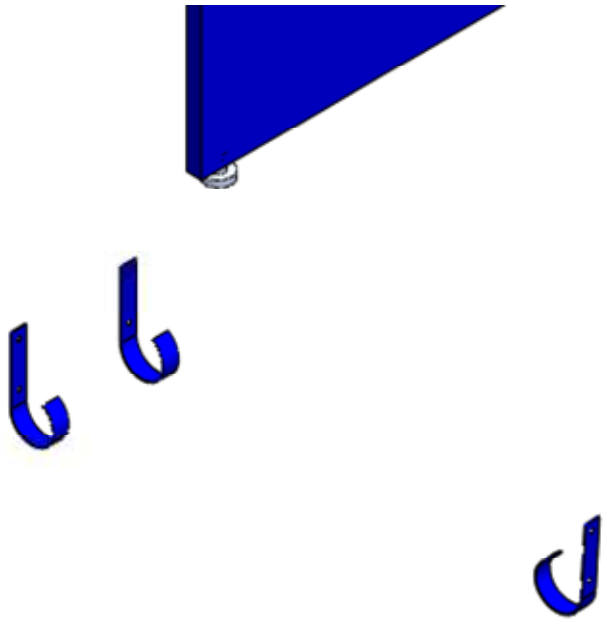




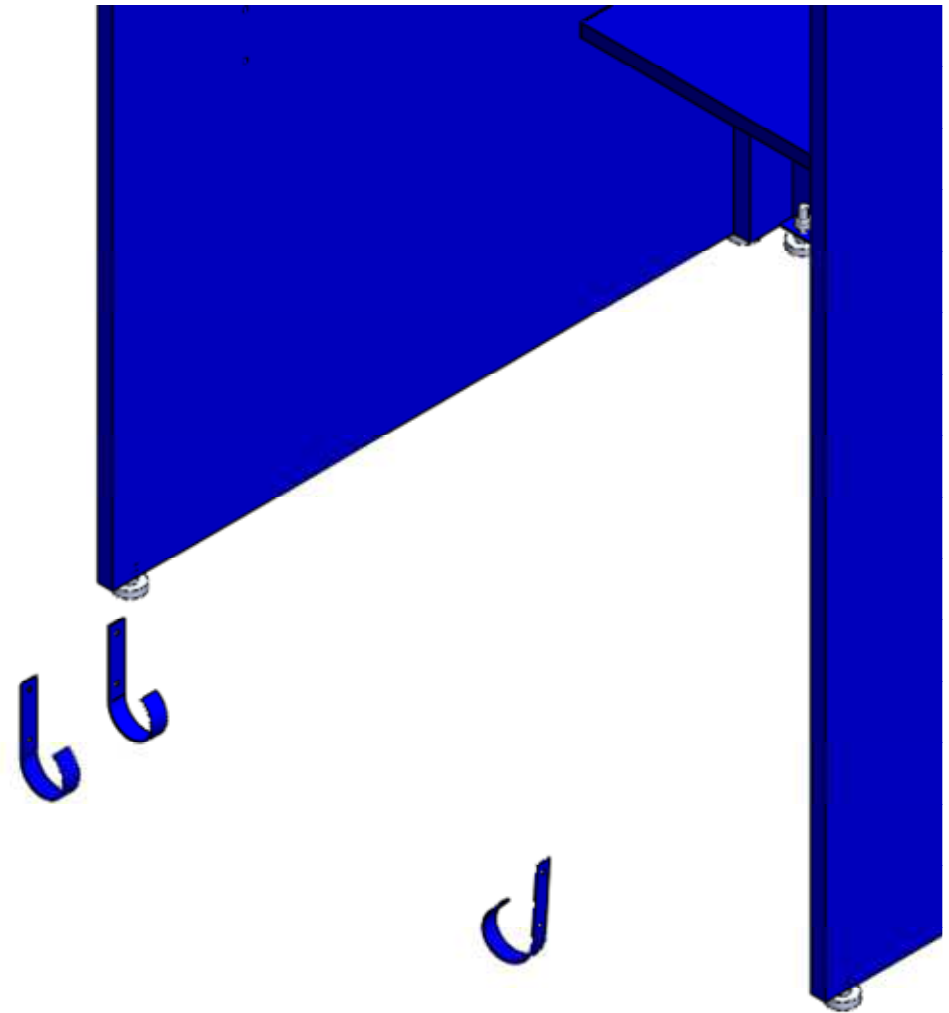
- Attach the fixing bases to both sides (pink arrows).

- Secure the adjustable backshelf in position, 1 pc in each booth, total 2 pcs for the two booths sitting together.

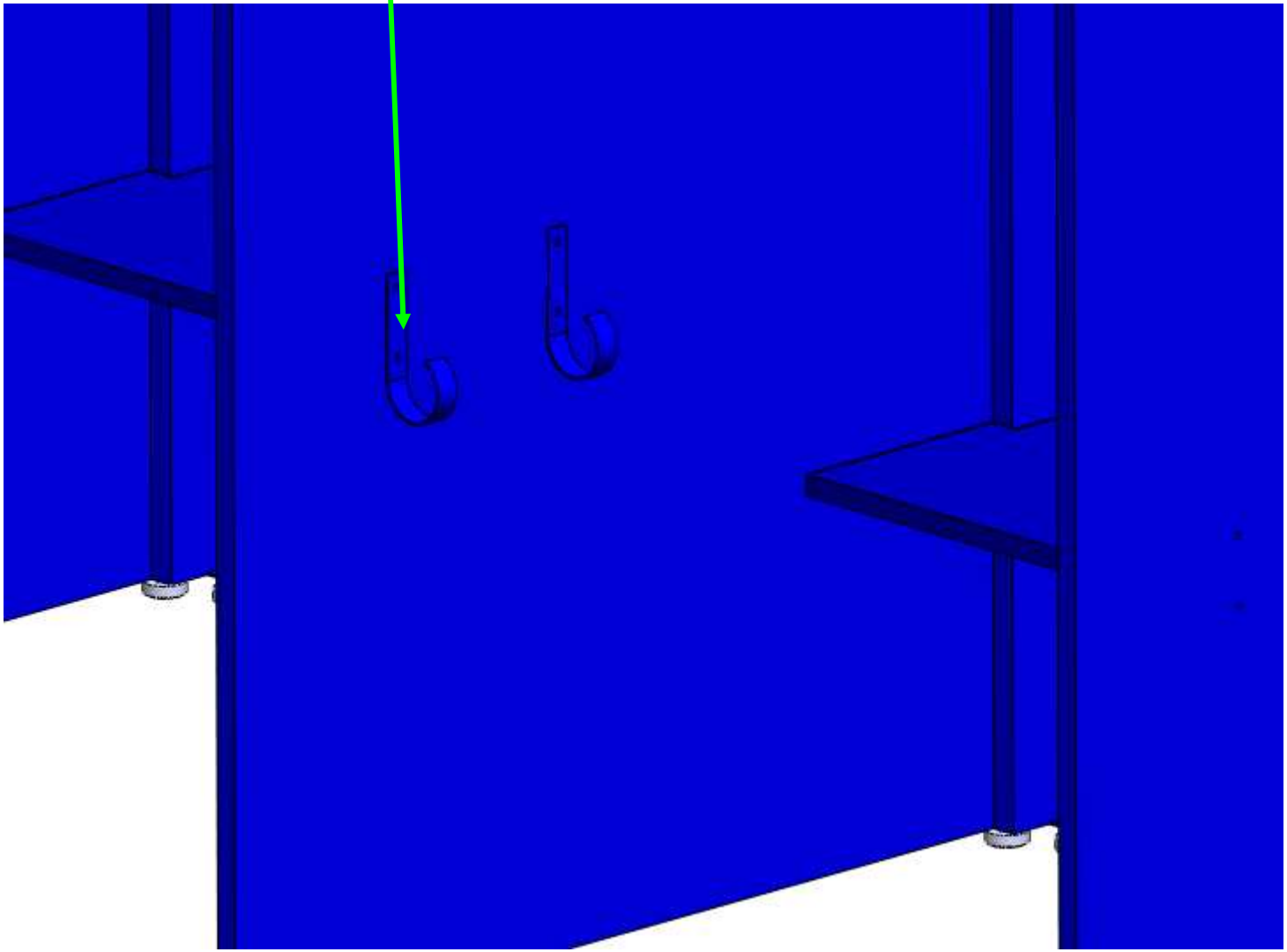




•Attach J-hooks to the panels, 4 pcs in each booth, total 8 pcs for the two booths sitting together.



J hooks

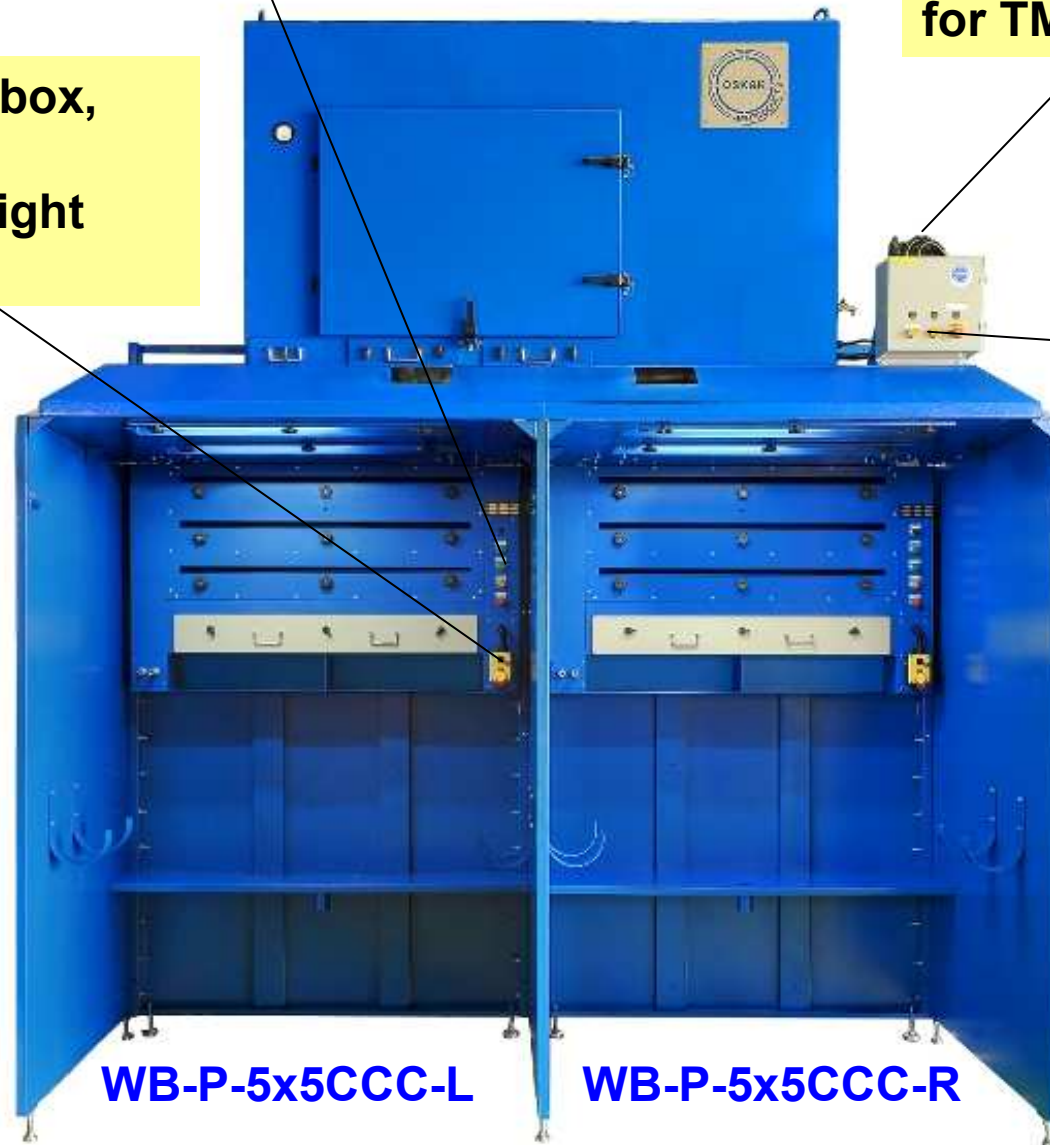


D: control panels inside the booths

E: electrical junction box, cable connections of overhead lights and light switch

F: main power supply outsourcing for TMC-7-4

G: main electrical box wiring for TMC-7-4



WB-P-5x5CCC-L

(left booth when facing the unit)

WB-P-5x5CCC-R

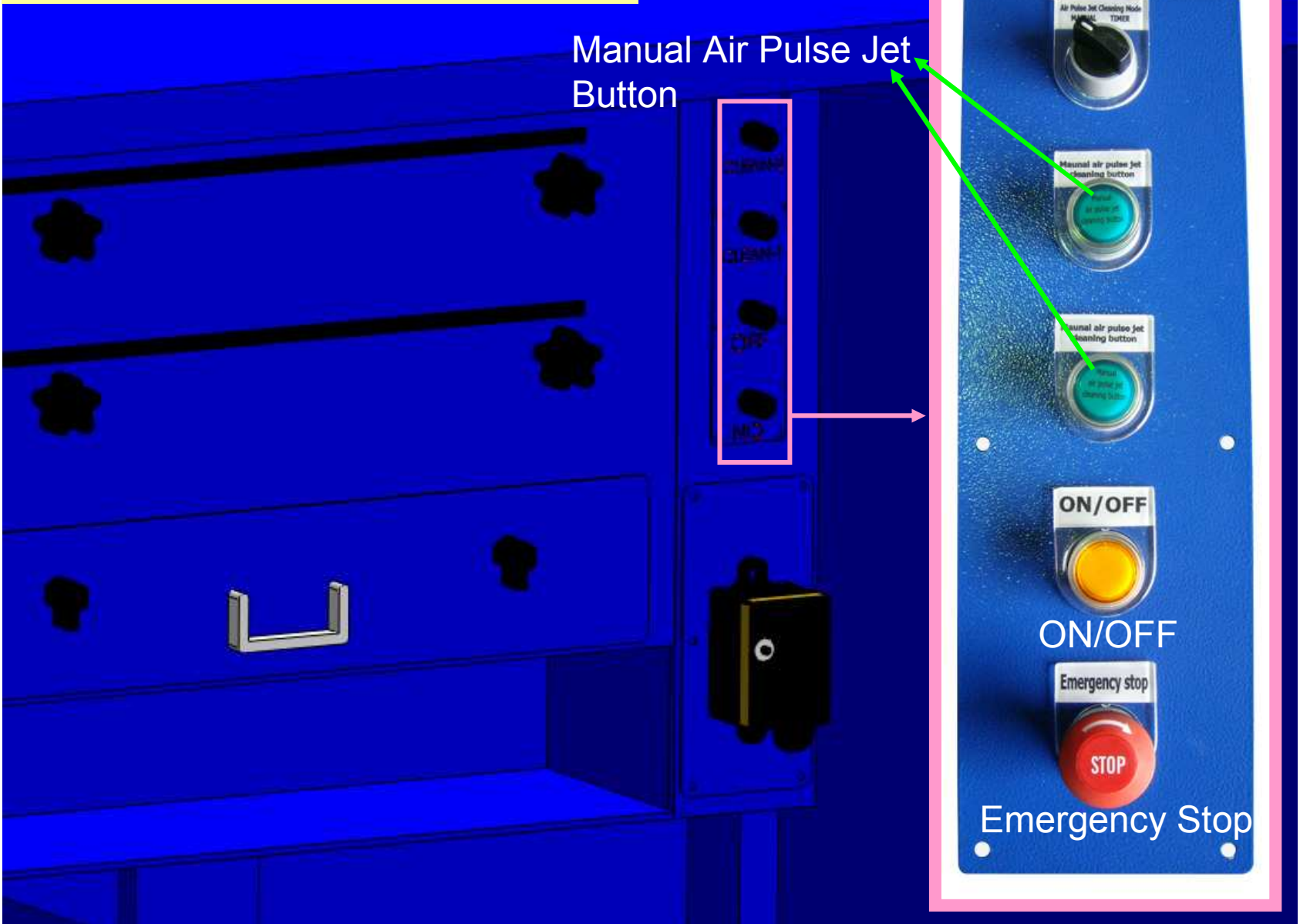
(right booth when facing the unit)

D: control panels inside the booths





**D1: WB-P-5x5CCC-R control panel
(right booth when facing the unit)**

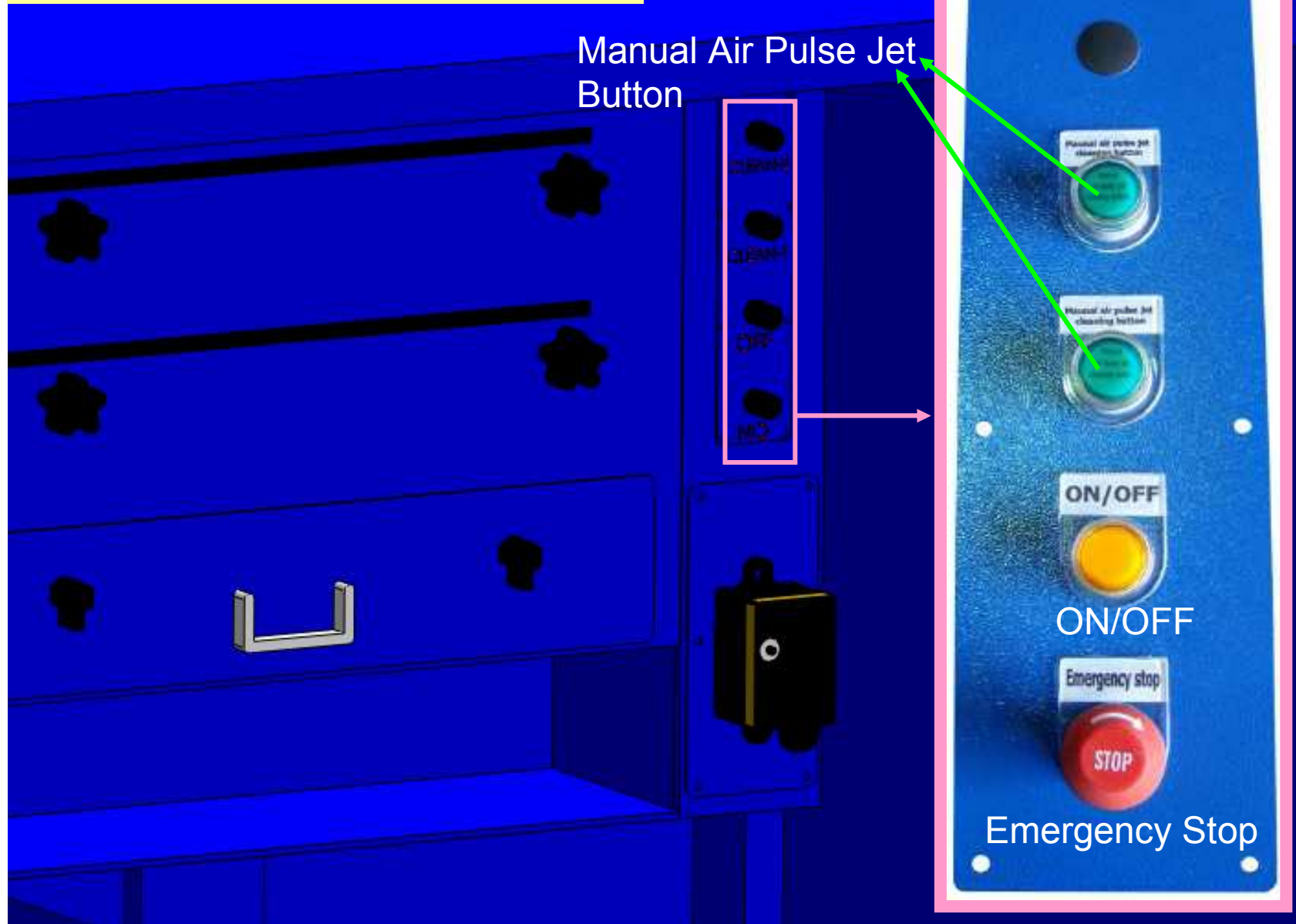


Manual Air Pulse Jet Button

ON/OFF

Emergency Stop

D1: WB-P-5x5CCC-L control panel
(left booth when facing the unit)



Manual Air Pulse Jet
Button

ON/OFF
ON/OFF

Emergency stop
STOP
Emergency Stop

E: electrical junction box, cable connections of overhead lights and light switch



electrical junction box
for WB-P-5x5CCC-L
(left booth when
facing the unit)

electrical junction box
for WB-P-5x5CCC-R
(right booth when
facing the unit)

When facing the unit

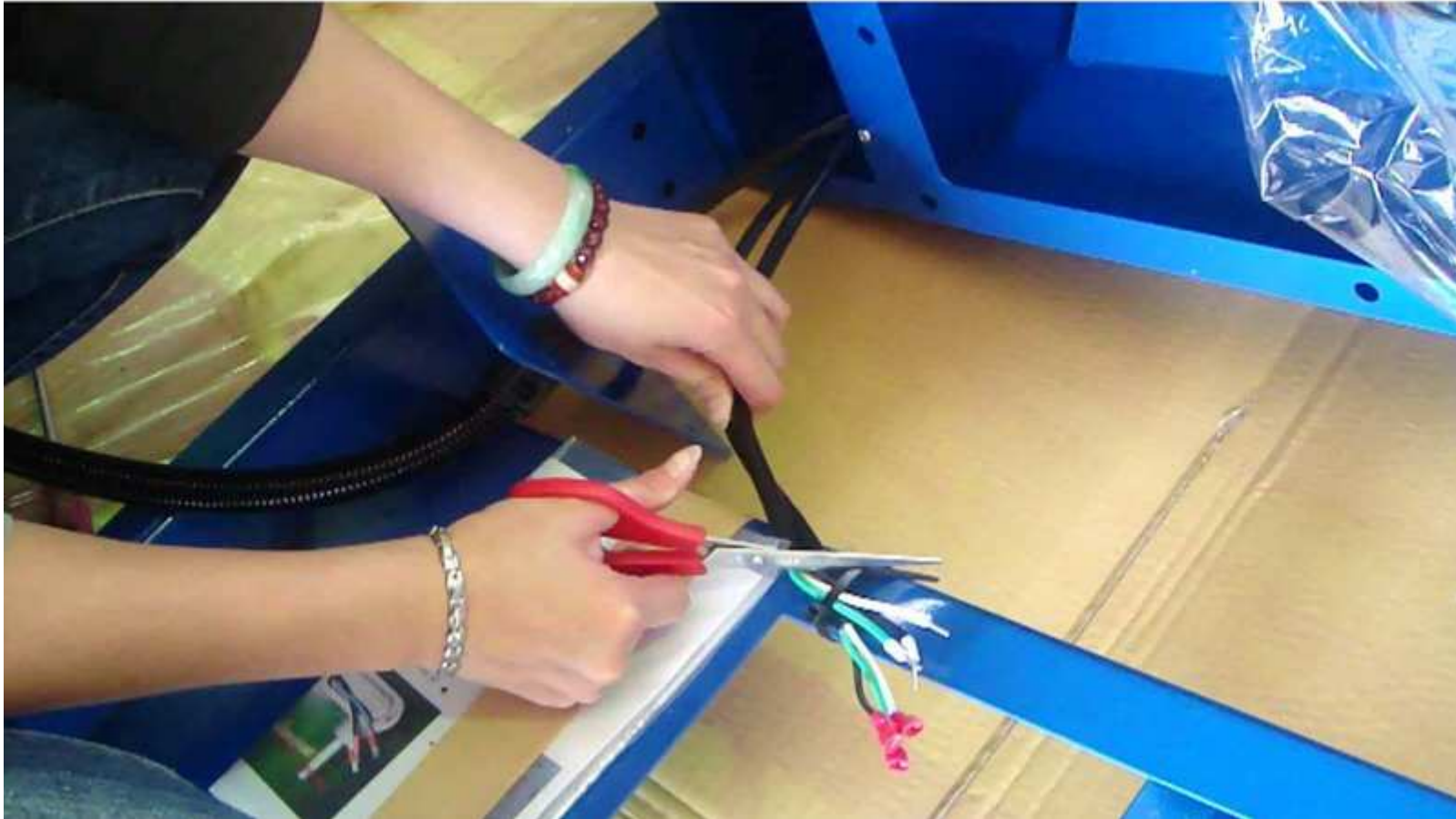
WB-P-5x5MA-

already locked in place
prior to shipment

iron plate

516 516

**E1: installations for electrical junction box for WB-P-5x5CCC-R
(right booth when facing the unit)**





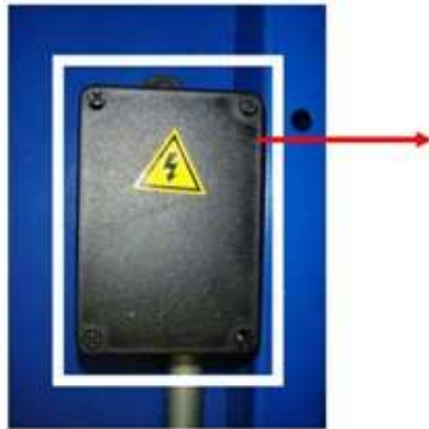








E2: cable connections of the light switch to electrical junction box for WB-P-5x5CCC-R (right booth when facing the unit)



- ◆ At first open the cover of the electrical junction box.



- ◆ Then reach the cable through the tube into the electrical junction box.
- ◆ Connect the cables with the terminal blocks for the electrical junction box.
- ◆ Link this set to local main power supply.



- ◆ Lock the cover of the electrical junction box.

E3: cable connections of light switch to overhead lights for WB-P-5x5CCC-R (right booth when facing the unit)



- ◆ At first take out the cable of light from the steel adapter box.



- ◆ Then reach the cable of the light switch through the tube into the steel adapter box



- ◆ Connections of two cables.



- ◆ Lock the cover of the steel adapter box.

E4: installations for electrical junction box for WB-P-5x5CCC-L (left booth when facing the unit)

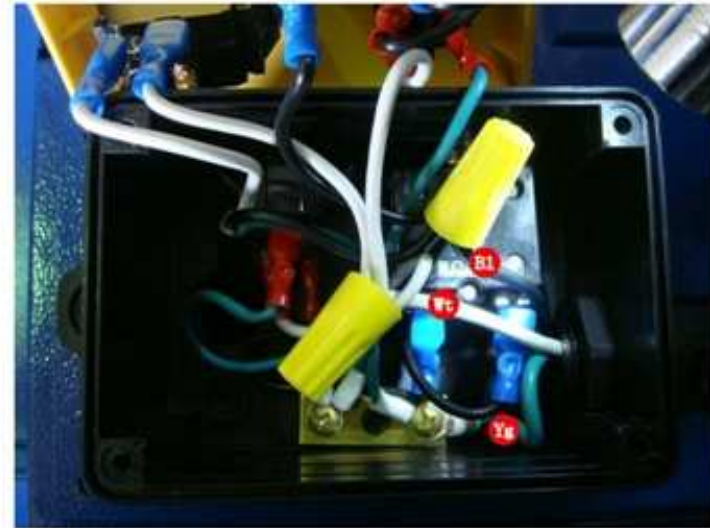


- ◆ Take out the electrical junction box which is packed with the UL control box.



- ◆ Open the cover of the electrical junction box. Connect to local main power supply. Fasten the cover of the electrical junction box.
- ◆ Then the electrical junction box should detour the back of WB-P-5x5CCC-L main set when facing the unit.
- ◆ Lock the electrical junction box on the iron plate next to the other electrical junction box which is already locked on the plate.

E5: cable connections for electrical junction box to light switch and 2-plugs sockets for WB-P-5x5CCC-L (left booth when facing the unit)

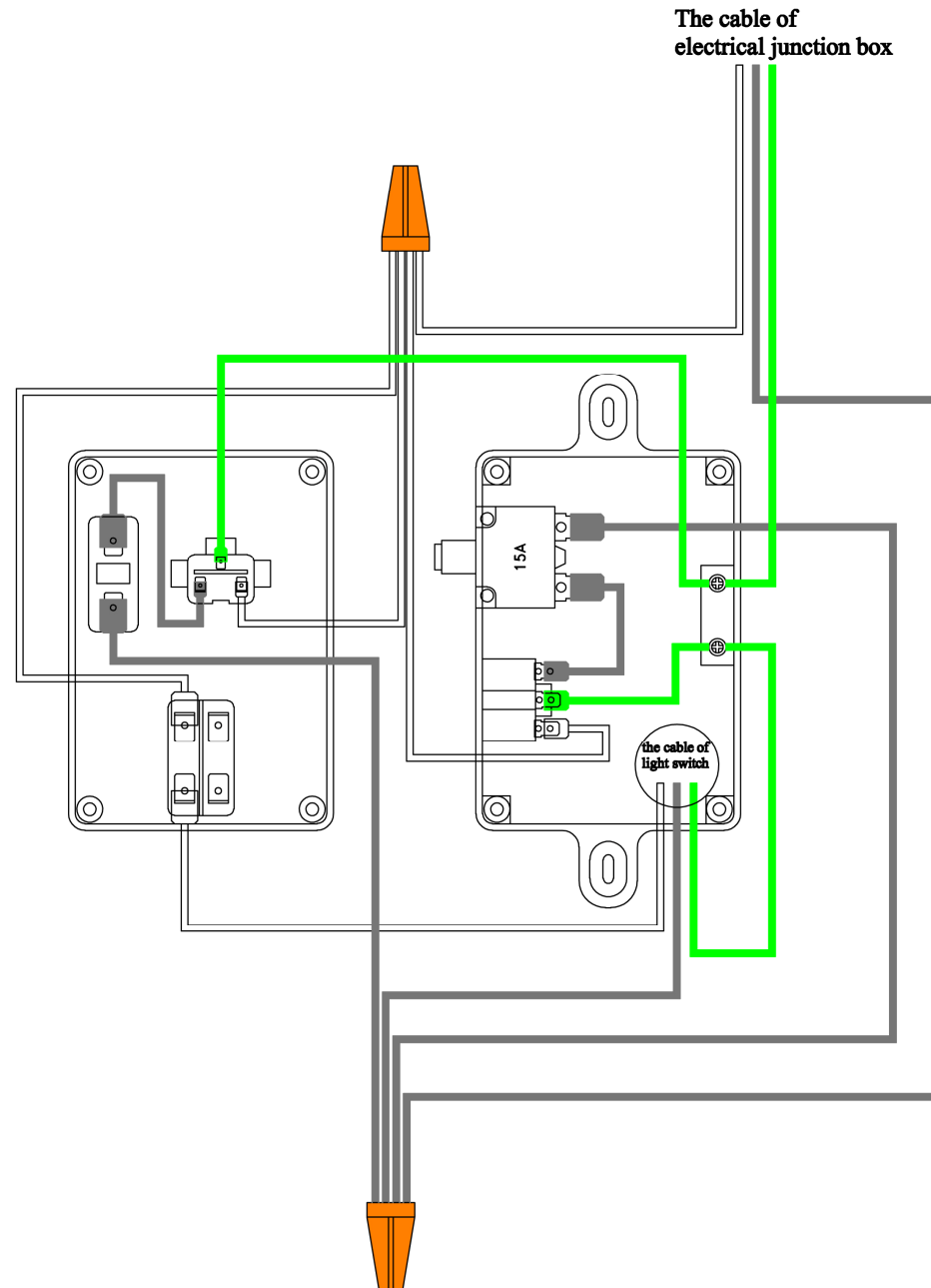


- ◆ Put out the corrugated plastic tubing from plastic connection.

- ◆ Lock the cover of the light switch and 2-plugs sockets.
- ◆ Put the corrugated plastic tubing into the plastic connection.

- ◆ Open the cover of the light switch and 2-plugs sockets: for overhead lights.
- ◆ Then reach the cable through the tube into the light switch and 2-plugs sockets through the tube.
- ◆ Connect the white cable with three white cables.
- ◆ Connect the black cable with three black cables.
- ◆ Using the screw on wire connector to lock up these four white cables and four black cables.
- ◆ Connect the grounding cable with the terminal blocks.

E6: wirings for light switch and 2-plugs sockets for WB-P-5x5CCC-L (left booth when facing the unit) and WB-P-5x5CCC-R (right booth when facing the unit)



E7: cable connections of light switch to overhead lights for WB-P-5x5CCC-L (left booth when facing the unit)



- ◆ At first take out the cable of light from the steel adapter box.



- ◆ Then reach the cable of the light switch through the tube into the steel adapter box



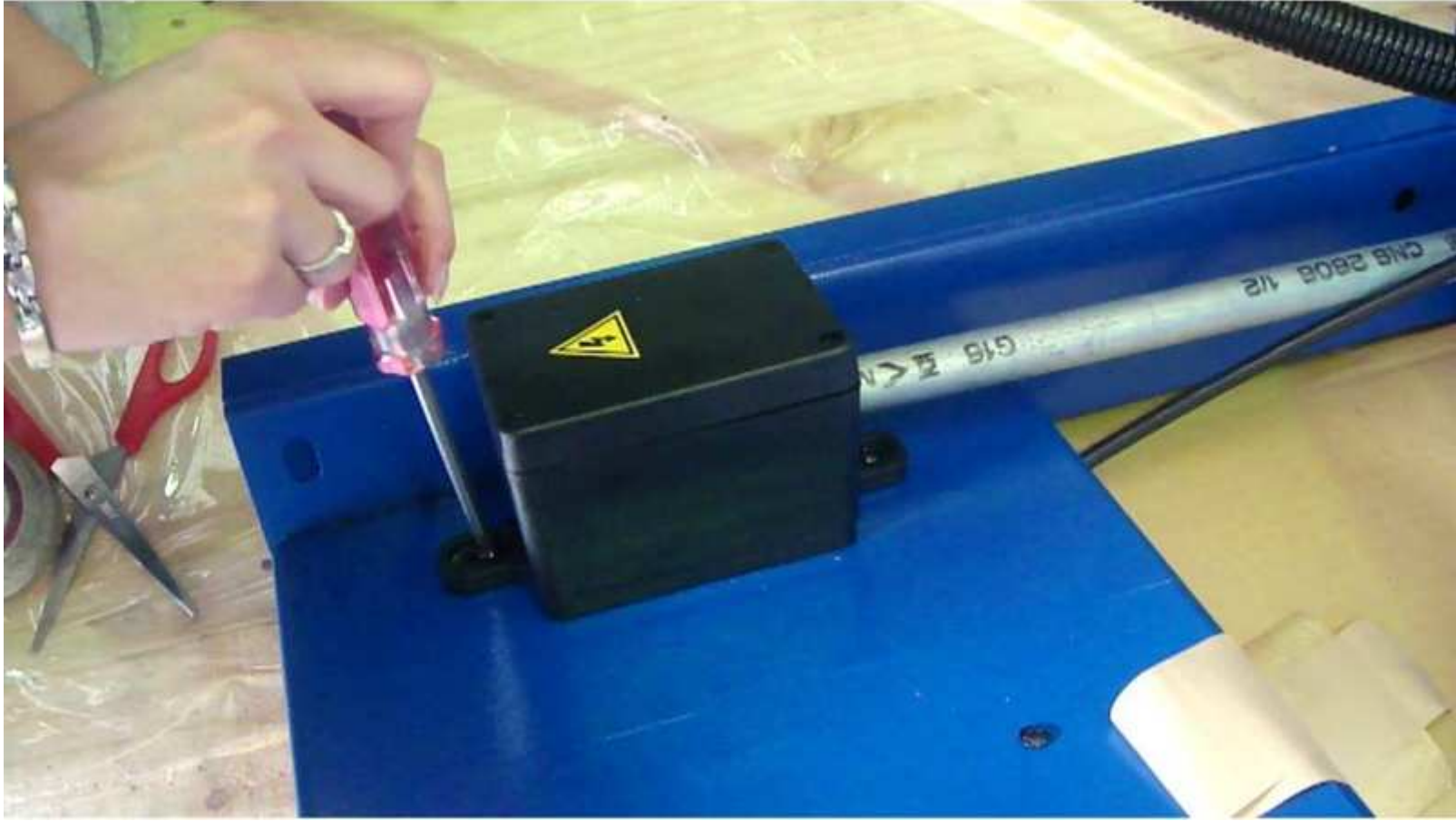
- ◆ Connections of two cables.



- ◆ Lock the cover of the steel adapter box.

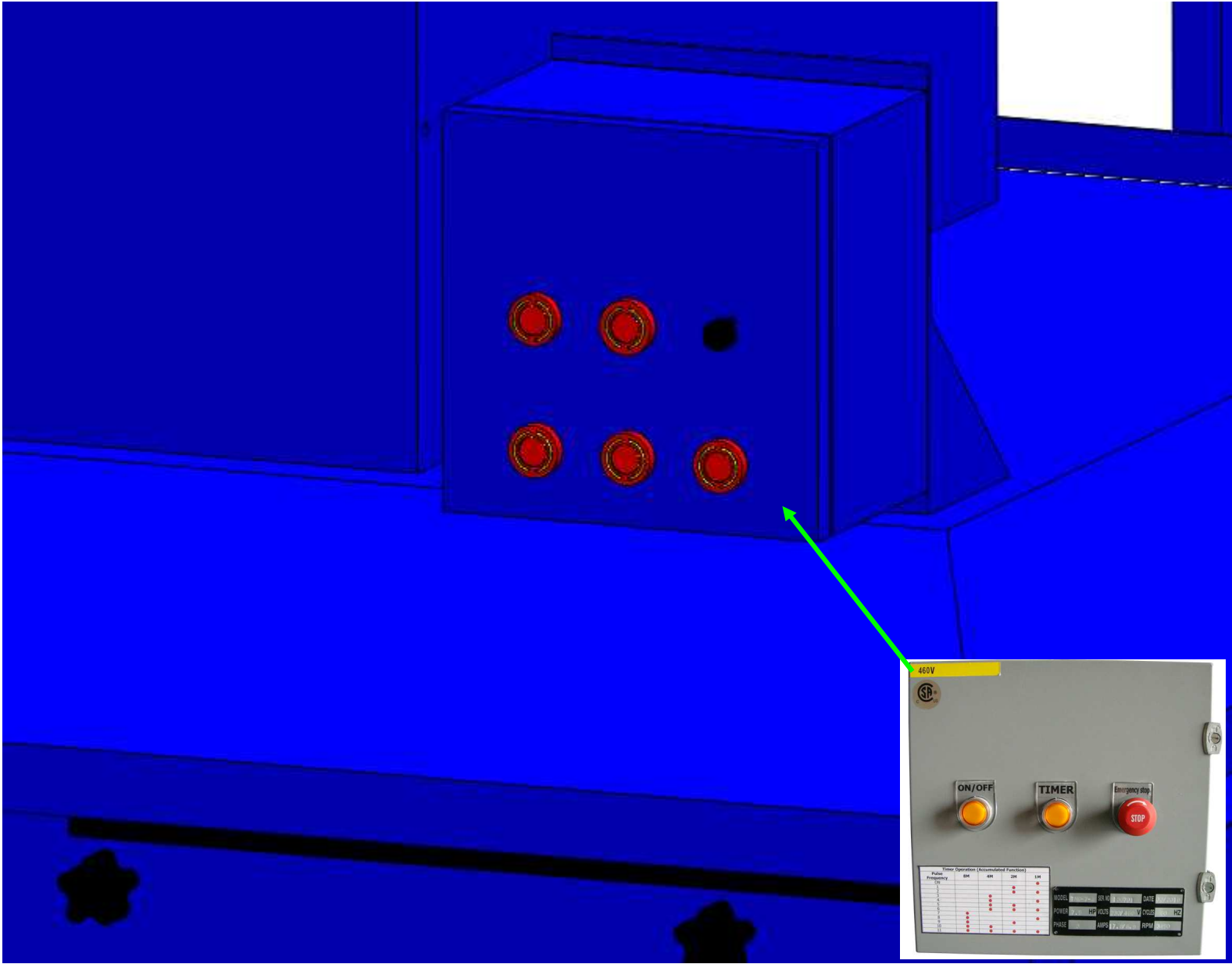






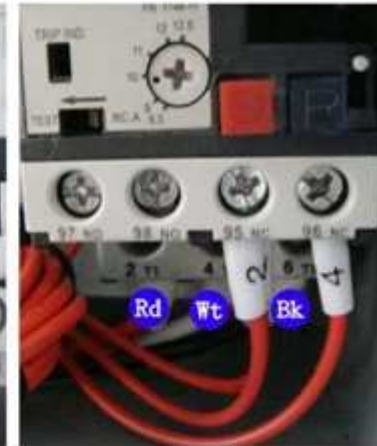
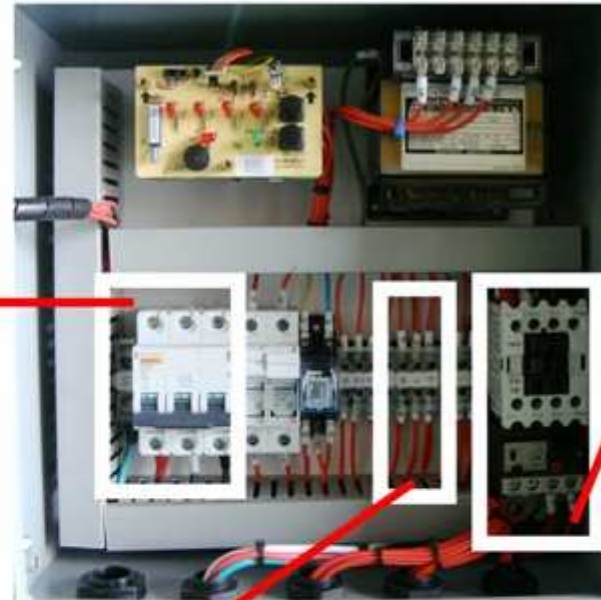


UL approved control box



F: main power supply outsourcing for TMC-7-4

Control Box for TMC-7-4



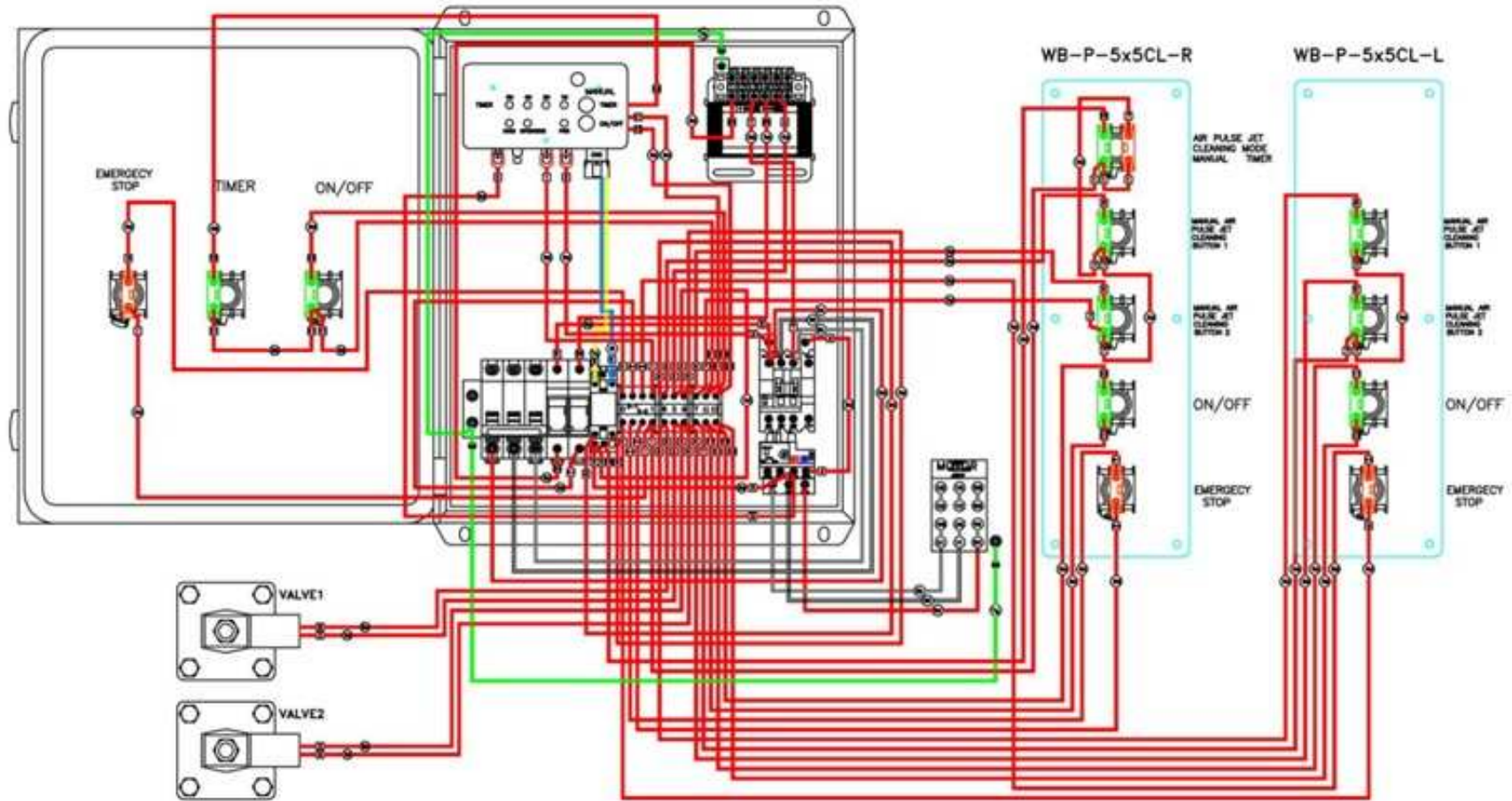
- Connect to main power supply for TMC-7-4.



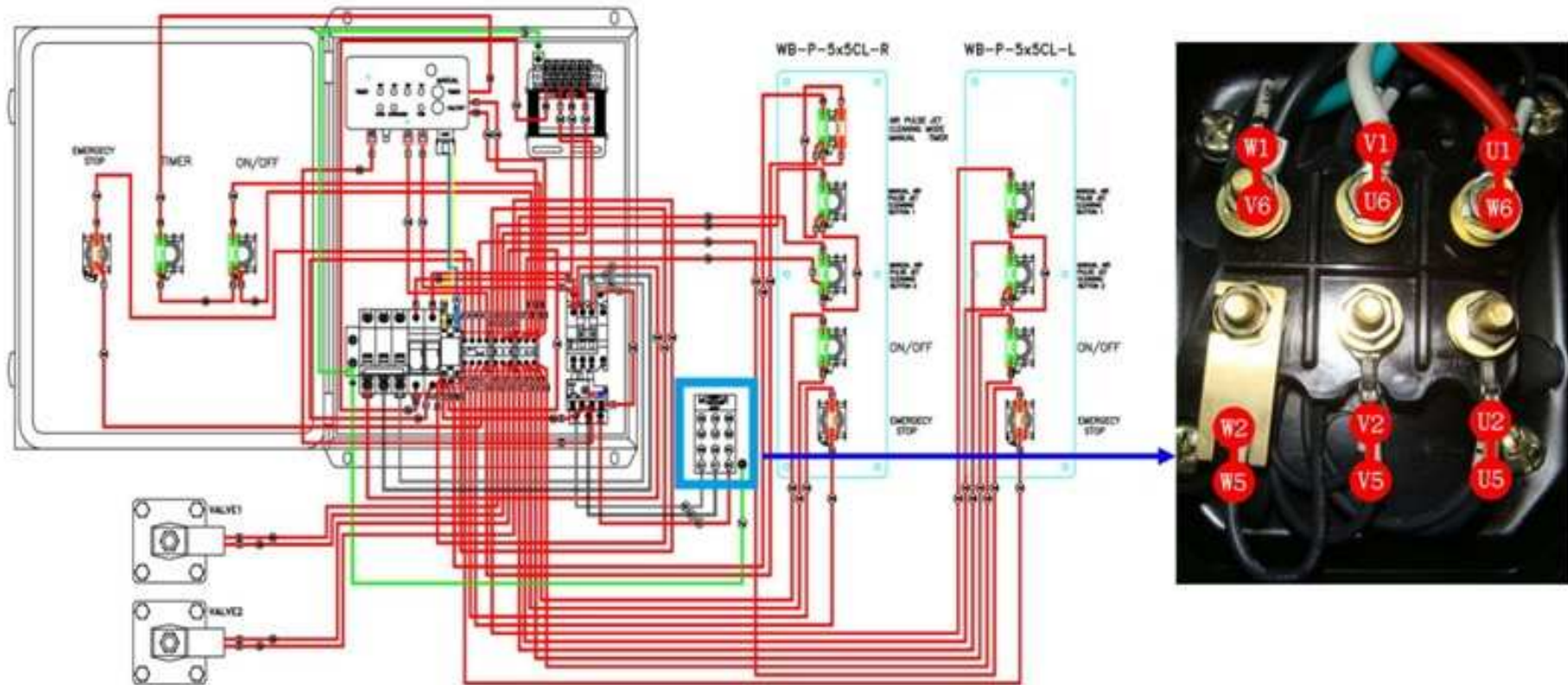
- Magnetic valve wirings for TMC-7-4.

- Connect to motor power supply for TMC-7-4.

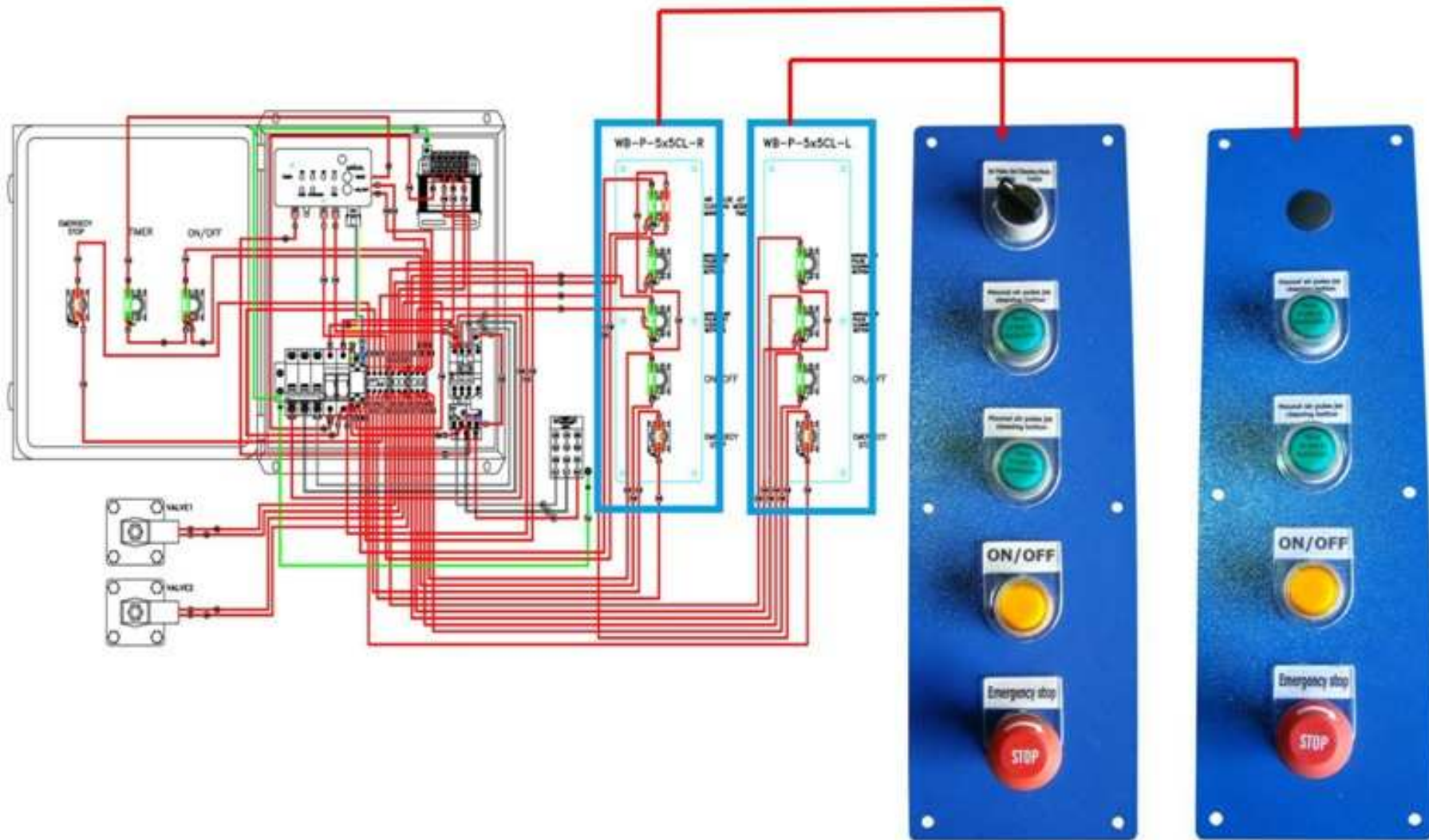
Main Electrical Box Wiring For TMC-7-4



Main Electrical Box Components for TMC-7-4



Main Electrical Box Components for TMC-7-4



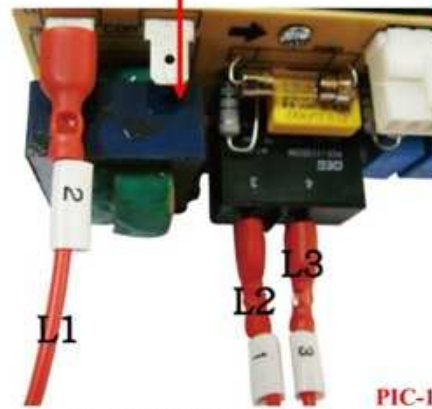
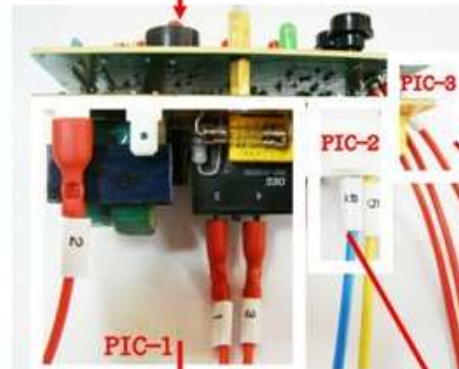
Main Electrical Box Components for TMC-7-4



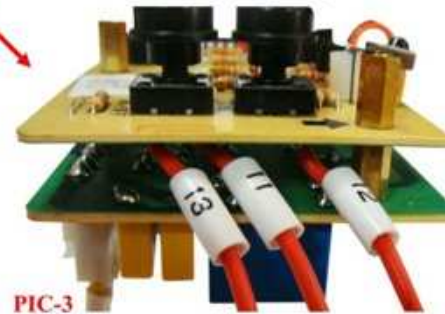
◆ IC Board (Front)



◆ IC Board (Back)

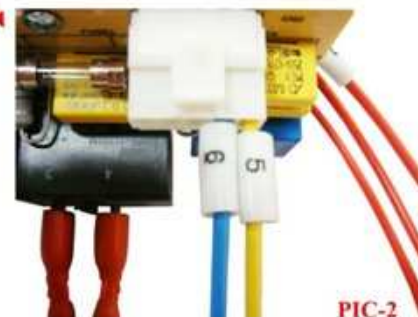


- ◆ L1/L2 : The main power.
- ◆ L3 : The blower.



PIC-3

- ◆ 12 : TIMER.
- ◆ 13 : ON/OFF



PIC-2

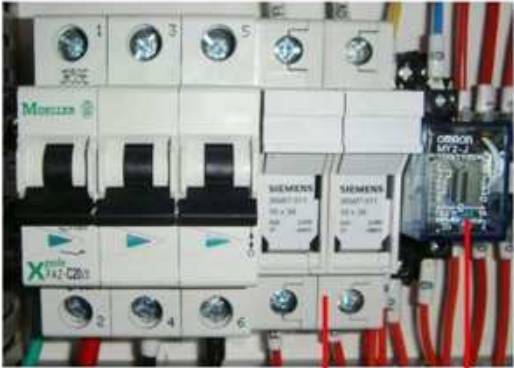
- ◆ Air pulse jet system.

Main Electrical Box Components for TMC-7-4

◆ Contactor and thermal relay. (7.5HP-460V)



◆ Input relay, fuse bus.



◆ Relay.



Main Electrical Box Components for TMC-7-4



◆ Transformer for 460V.



◆ Air pulse jet system.



◆ Coin



Hardware bags detailed list:

standard booths

Cleveland TMC-7-4 above WB-6055 Standard Booth						
A	Fixing Base (left)			# of pack required	9	
	Part Name	Specification	Q'ty	Total		
1	Hex Screw	3/8" x 2-1/2"	2	18		
2	Hex Screw	3/8" x 3/4"	1	9		
3	Hex Screw	5/16" x 3/4"	1	9		
4	Lock Nut	3/8"	2	18		
5	Flat Washer	3/8" x OD23*2t	5	45		
6	Flat Washer	5/16" x OD23*2t	1	9		
B	Fixing Base (right)			# of pack required	9	
	Part Name	Specification	Q'ty	Total		
1	Hex Screw	3/8" x 2-1/2"	2	18		
2	Hex Screw	3/8" x 3/4"	1	9		
3	Hex Screw	5/16" x 3/4"	1	9		
4	Lock Nut	3/8"	2	18		
5	Flat Washer	3/8" x OD23*2t	5	45		
6	Flat Washer	5/16" x OD23*2t	1	9		
C	Right Side Panel to Main Set			# of pack required	9	
	Part Name	Specification	Q'ty	Total		
1	Half-threaded Screw	3/8" x 4"	9	81		
2	Lock Nut	3/8"	9	81		
3	Flat Washer	3/8" x OD23*2t	18	162		
D	Left Side Panel to Main Set			# of pack required	9	
	Part Name	Specification	Q'ty	Total		
1	Half-threaded Screw	3/8" x 4"	9	81		
2	Lock Nut	3/8"	9	81		
3	Flat Washer	3/8" x OD23*2t	18	162		
E	Middle Panel to Main Set			# of pack required	9	
	Part Name	Specification	Q'ty	Total		
1	Half-threaded Screw	3/8" x 5-1/2"	11	99		
2	Lock Nut	3/8"	11	99		
3	Flat Washer	3/8" x OD23*2t	22	198		
F	Adjustable Backshelf (solid)			# of pack required	18	
	Part Name	Specification	Q'ty	Total		
1	Hex Screw	5/16" x 3/4"	8	144		
2	Flat Washer	5/16" x OD18*2t	8	144		
K	Left Side Panel Top Joints			# of pack required	36	
	Part Name	Specification	Q'ty	Total		
1	Hex Screw	5/16" x 3/4"	2	72		
2	Flat Washer	5/16" x OD23*2t	2	72		
M	Right Side Panel Top Joints			# of pack required	36	
	Part Name	Specification	Q'ty	Total		
1	Hex Screw	5/16" x 3/4"	2	72		
2	Flat Washer	5/16" x OD23*2t	2	72		
O	Curtain Rod			# of pack required	36	
	Part Name	Specification	Q'ty	Total		
1	Hex Screw	1/4" x 3/4"	4	144		
2	Flat Washer	1/4" x OD19*2t	4	144		
R	Adjacence of the Top Hood Draft (back part) and Upper Part of the Backdraft Module - 1			# of pack required	9	
	Part Name	Specification	Q'ty	Total		
1	Hex Screw	5/16" x 3/4"	38	342		
2	Hex Nut	5/16"	38	342		
3	Flat Washer	5/16" x OD23*2t	76	694		
S	Adjacence of the Top Hood Draft (back part) and Upper Part of the Backdraft Module - 2			# of pack required	9	
	Part Name	Specification	Q'ty	Total		
1	Hex Screw	5/16" x 3/4"	10	90		
2	Flat Washer	5/16" x OD23*2t	10	90		
T	Adjacence of the Top Hood Draft (back part) and Upper Part of the Backdraft Module - 3			# of pack required	9	
	Part Name	Specification	Q'ty	Total		
1	Hex Screw	5/16" x 3/4"	35	315		
2	Flat Washer	5/16" x OD23*2t	35	315		
V	CO2 Bracket			# of pack required	18	
	Part Name	Specification	Q'ty	Total		
1	Hex Screw	5/16" x 3/4"	7	126		
2	Flat Washer	5/16" x OD23*2t	7	126		
W	Control Panel			# of pack required	9	
	Part Name	Specification	Q'ty	Total		
1	Hex Screw	1/4" x 3/4"	4	36		
2	Flat Washer	1/4" x OD18*2t	4	36		
G	Hardware for Backdraft & Back Panels Back-to-Back Connections			# of pack required	3	
	Part Name	Specification	Q'ty	Total		
1	Half-threaded Screw	3/8" x 9"	6	18		
2	Lock Nut	3/8"	6	18		
3	Flat Washer	3/8" x OD23*2t	12	36		

Hardware bags detailed list:

Cleveland TMC-7-4 above Smaller Booth

A Fixing Base (left) # of pack required 4				
	Part Name	Specification	Q'ty	Total
1	Hex Screw	3/8"*2-1/2"	2	8
2	Hex Screw	3/8"*3/4"	1	4
3	Hex Screw	5/16"*3/4"	1	4
4	Lock Nut	3/8"	2	8
5	Flat Washer	3/8"*OD23*2t	5	20
6	Flat Washer	5/16"*OD23*2t	1	4

B Fixing Base (right) # of pack required 4				
	Part Name	Specification	Q'ty	Total
1	Hex Screw	3/8"*2-1/2"	2	8
2	Hex Screw	3/8"*3/4"	1	4
3	Hex Screw	5/16"*3/4"	1	4
4	Lock Nut	3/8"	2	8
5	Flat Washer	3/8"*OD23*2t	5	20
6	Flat Washer	5/16"*OD23*2t	1	4

C Right Side Panel to Main Set # of pack required 4				
	Part Name	Specification	Q'ty	Total
1	Half-threaded Screw	3/8"*4"	9	36
2	Lock Nut	3/8"	9	36
3	Flat Washer	3/8"*OD23*2t	18	72

D Left Side Panel to Main Set # of pack required 4				
	Part Name	Specification	Q'ty	Total
1	Half-threaded Screw	3/8"*4"	9	36
2	Lock Nut	3/8"	9	36
3	Flat Washer	3/8"*OD23*2t	18	72

E Middle Panel to Main Set # of pack required 4				
	Part Name	Specification	Q'ty	Total
1	Half-threaded Screw	3/8"*5-1/2"	11	44
2	Lock Nut	3/8"	11	44
3	Flat Washer	3/8"*OD23*2t	22	88

F Adjustable Backshelf (solid) # of pack required 8				
	Part Name	Specification	Q'ty	Total
1	Hex Screw	5/16"*3/4"	8	64
2	Flat Washer	5/16"*OD18*2t	8	64

K Left Side Panel Top Joints # of pack required 16				
	Part Name	Specification	Q'ty	Total
1	Hex Screw	5/16"*3/4"	2	32
2	Flat Washer	5/16"*OD23*2t	2	32

M Right Side Panel Top Joints # of pack required 16				
	Part Name	Specification	Q'ty	Total
1	Hex Screw	5/16"*3/4"	2	32
2	Flat Washer	5/16"*OD23*2t	2	32

O Curtain Rod # of pack required 16				
	Part Name	Specification	Q'ty	Total
1	Hex Screw	1/4"*3/4"	4	64
2	Flat Washer	1/4"*OD19*2t	4	64

R Adjacence of the Top Hood Draft (back part) and Upper Part of the Backdraft Module # of pack required 4				
	Part Name	Specification	Q'ty	Total
1	Hex Screw	5/16"*3/4"	38	152
2	Hex Nut	5/16"	38	152
3	Flat Washer	5/16"*OD23*2t	76	304

S Adjacence of the Top Hood Draft (back part) and Upper Part of the Backdraft Module - 2 # of pack required 4				
	Part Name	Specification	Q'ty	Total
1	Hex Screw	5/16"*3/4"	10	40
2	Flat Washer	5/16"*OD23*2t	10	40

T Adjacence of the Top Hood Draft (back part) and Upper Part of the Backdraft Module - 3 # of pack required 4				
	Part Name	Specification	Q'ty	Total
1	Hex Screw	5/16"*3/4"	35	140
2	Flat Washer	5/16"*OD23*2t	35	140

V CO2 Bracket # of pack required 8				
	Part Name	Specification	Q'ty	Total
1	Hex Screw	5/16"*3/4"	7	56
2	Flat Washer	5/16"*OD23*2t	7	56

W Control Panel # of pack required 4				
	Part Name	Specification	Q'ty	Total
1	Hex Screw	1/4"*3/4"	4	16
2	Flat Washer	1/4"*OD18*2t	4	16

smaller booths