### **OPERATING INSTRUCTIONS**

### 85120 Double Booth



\*PLEASE NOTE THAT DENRAY'S BOOTHS ARE PAINTED OUR STANDARD DENRAY BLUE\*

<b>DENRAY Machine</b>		
(800) 766-8263	Booth	
MODEL NUMBER:	85120 BOOTH	
SERIAL NUMBER:	476206	
MOTOR HP: 10	AMP: 13.4/6.7	
MOTOR TYPE:	EM3615T	
VOLTAGE:	230 460 /60Htz	
FAN TYPE:	22" Comfr	
MFG DATE:	06/28/2023	
FILTER NUMBER:	E06060	
SWITCH TYPE:	Draf16-14U	
Overload	TF42-7.6	

#### To find YOUR tables pertinent information please locate the table sticker on your table.

\*Please note the image above is a "generic" table sticker for visual purposes only! The table sticker on your machine reflects how it left the manufacturer and does not reflect any after-market changes made by previous owners. If you have questions please call Denray Machine at (800) 766-8263.

#### **WARRANTY**

This Machine is covered with a 12 month warranty. The warranty covers replacement parts, except filters and wooden top (if applicable). The only way Denray will cover the labor is the work must be done by Denray at Denray's Facility. The shipping must be provided by the customer (owner of the machine) both ways. You may contact the dealer you purchased the machine from, and discuss with them, the possibility of their assistance in helping to solve the problem in your facility. Denray assumes or accepts no responsibility more than the cost of the machine. In the case of repair Denray will determine either to fix or replace the product. Denray reserves the right to modify or change the design of this and any model of their machines, without changing or updating any previous manufactured machine. The warranty will not cover any damage done by fire or any other act of nature or if abuse or improper maintenance was or was not performed.

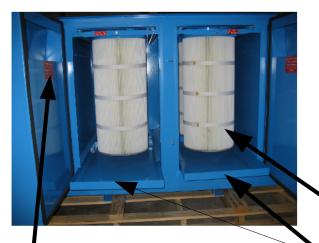
Never Allow Any Unauthorized or Untrained Person To Operate This Machine

Lockout and tagout any time maintenance is performed on this machine

#### WARNING

NEVER GRIND OR SAND ANY ALUMINUM OR MAGNESIUM, OR ANY SPARK CREATING PRODUCT ON THIS MACHINE

Filters are the main need of maintenance, the cleaner the filters are kept the better the machine will perform. This machine is equipped with timers to clean the filters, every so many minutes a pulse of air will be released into one of the filters, and a few minutes later the other filter will be pulsed, the time is needed to refill the tank. The time between pulses are adjustable, refer to the electrical diagram. Warning if the time is reduced between pulses the filter may plug up reducing the machines performance. The filters can also be pulsed with the machine off, it may blow dust back into the work area, so caution should be used here, pulse the machine then turn machine on to pull dust back into the filters.



The filters will clean better with machine off, you may shut machine off and before it slows down to a complete stop, pulse the filter and allow the fan to prevent the dust from exiting the filter compartment.

Filter replacement number is on the inside of the filter door.Be sure to replace with same type of filter or a filter made of polyester media.

Cartridge Filters 99.95% efficeincy down to .5 micron

Filter replacement number Is on inside of this door.
MUST replace with the proper fire retardant filter

Dust Drawer Clean regularly, as needed

UMHW Plastic strips for ease of sliding the filters. Must be in place

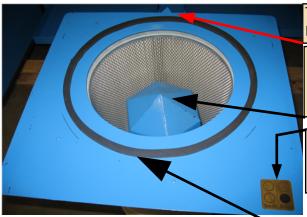
Bolt that holds the band that secures the filter to the steel plate that slides in the filter unit. This makes removing filters from the plate very easy, Allowing filter deep cleaning a much easier task, thus allowing the filters to be cleaned better and easier.



## Never Open Any Door While Machine Is Running

This bolt holds the levers that raise and lowers the filters. Once the machine is in place, remove the nut from this bolt, once the bolt is in the hole pull down on the levers to lock the bolt in place. looks like the picture





This Vee will align into the filter placed in first

The cone on the inside of the filters enhances the cleaning process. It is bolted into the bottom of the filter.

This shows the location of the four filters, the black circle shows this filter is the front right filter.



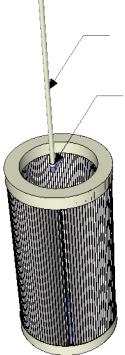
This seal needs to be inspected everytime the steel plate is removed. Look to see if any missing rubber, This seal prevents the dust from by passing the filter. If this seal is not intact it needs to be replaced.

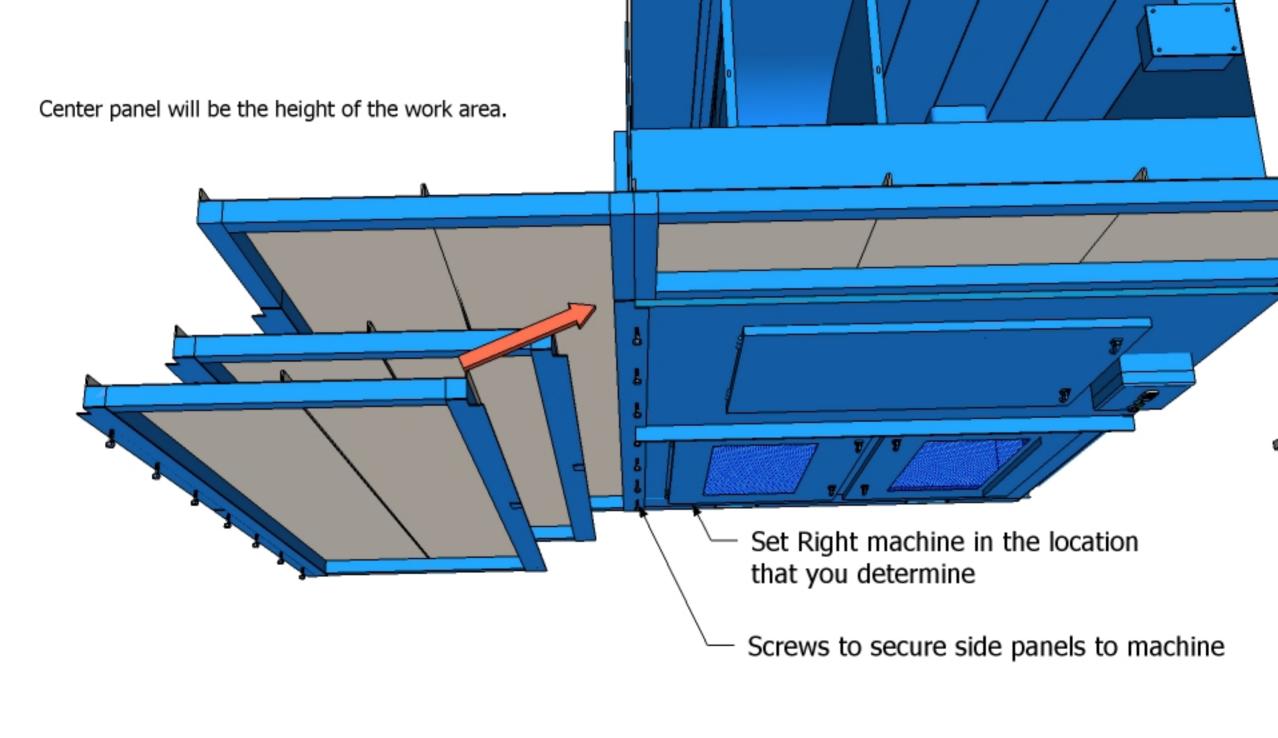
Order a booth filter plate seal

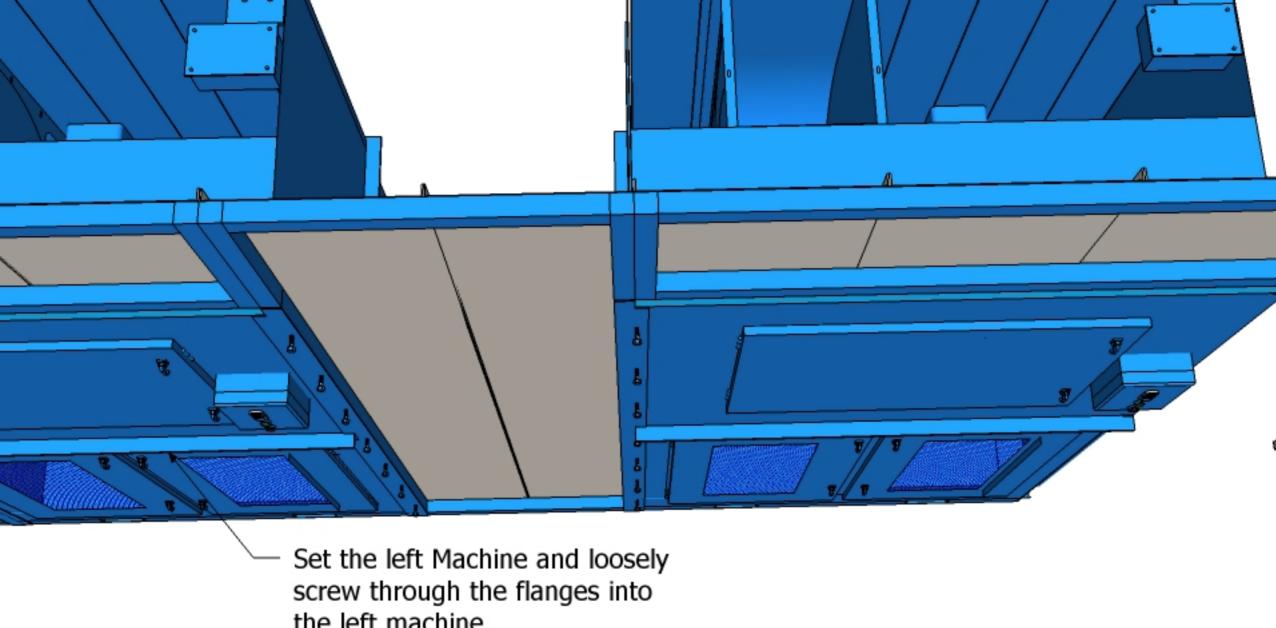
1/8" pipe screwed to blow gun

elbow on the end of the pipe to direct the air through the filter thus blowing off the dirt. Filter Cleaning is almost the only thing that has to be done to maintain these machines. No lubrication to maintain The cleaner the filters are kept the better the machine will perform. The dirtier the filters the harder it is to pull air through them.

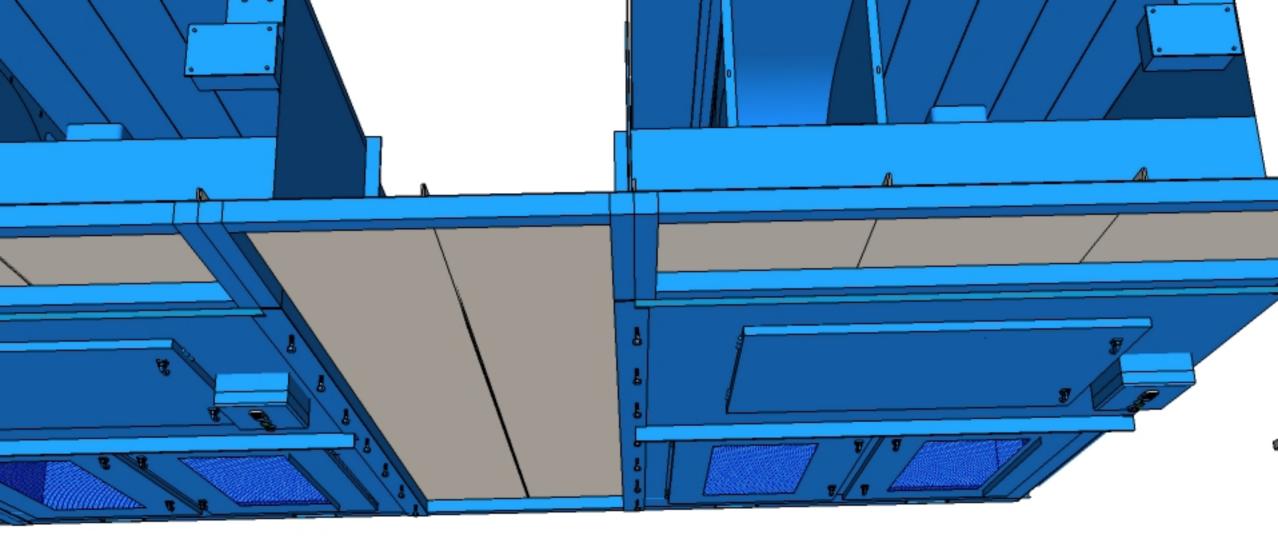
Harbor Freight Catalog outlet sells a blow gun with a long stem that will reach into all the filters.





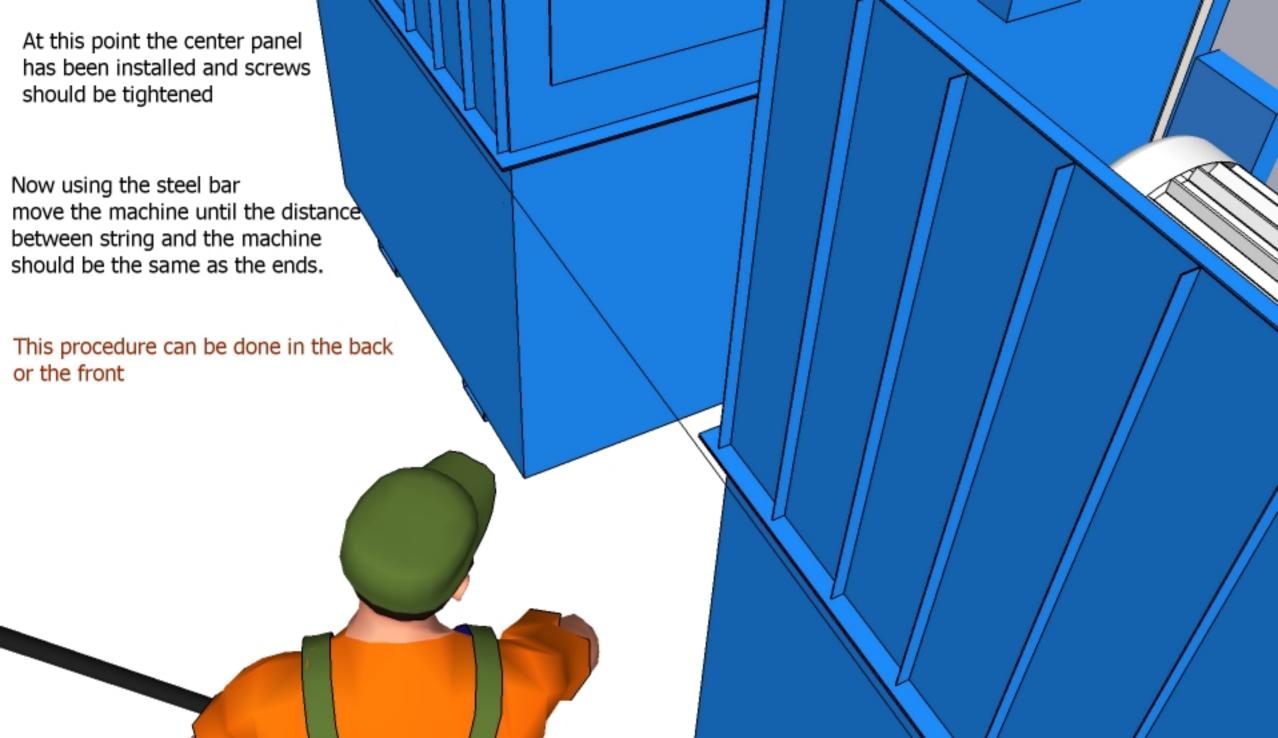


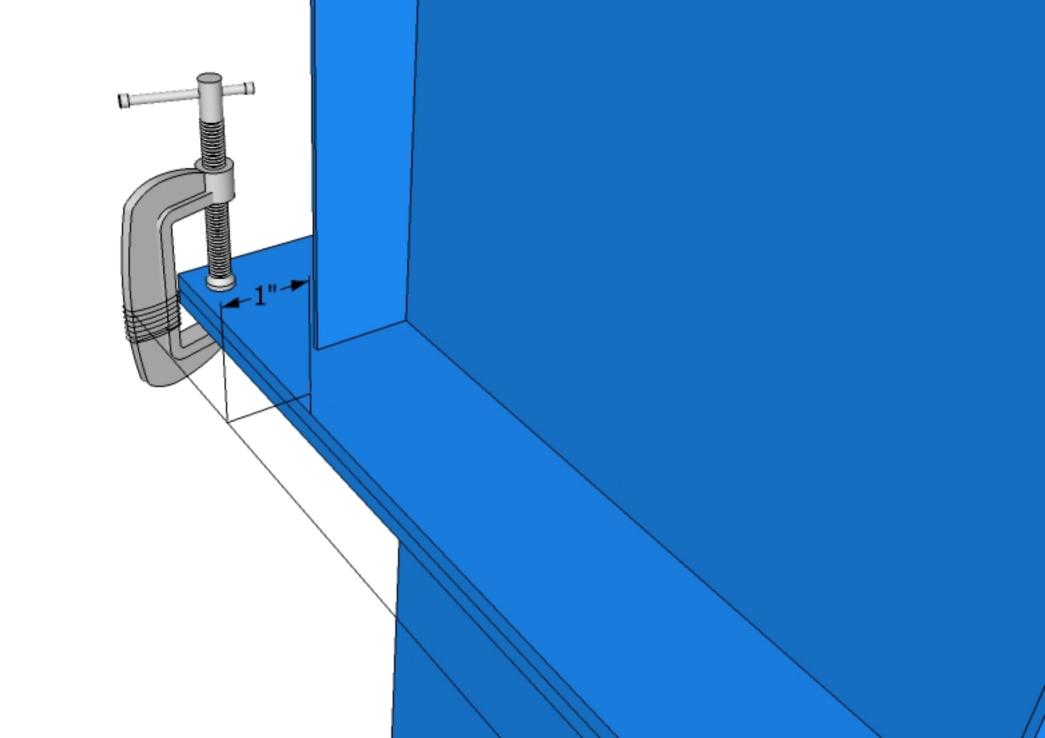
the left machine.



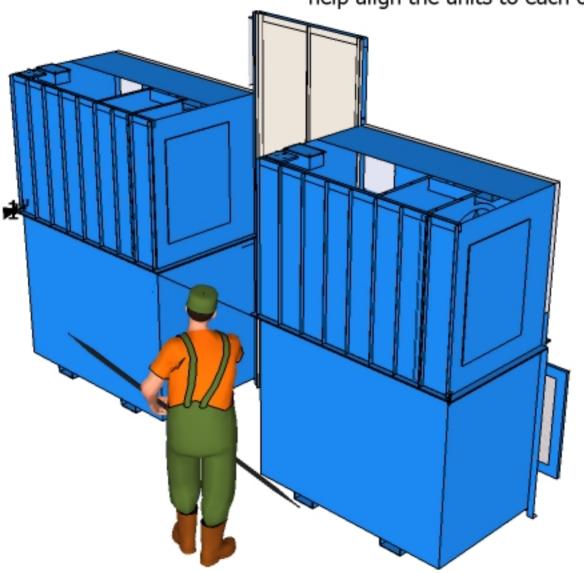
Now refer to the alignment pages to get machines in a straight alignment. Shims under one or more corners may be needed, in order to get all the alignments needed. This will allow for floors being uneven.

After the machine is all together with screws loosely in place, be sure all screws are tightened.



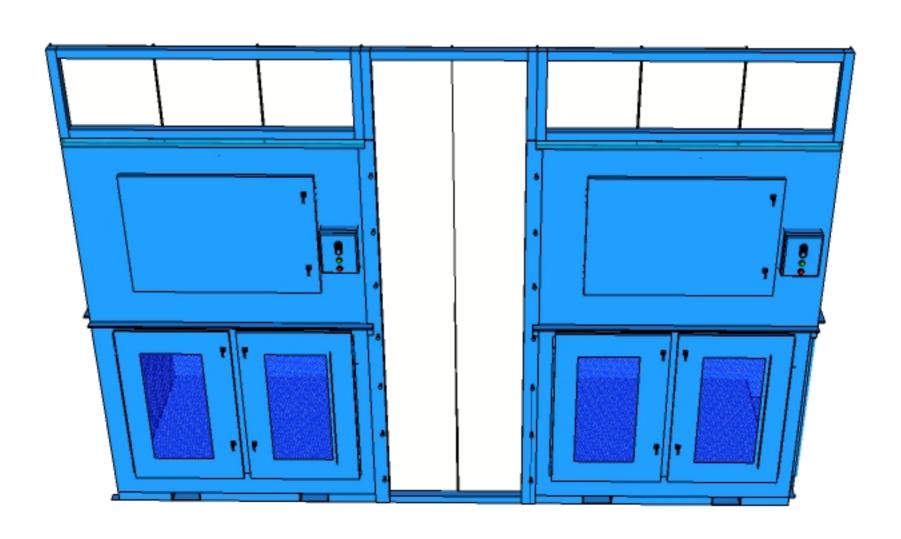


Using a Rock bar or a long steel bar as a lever will assist in moving the power units easily to help align the units to each other.



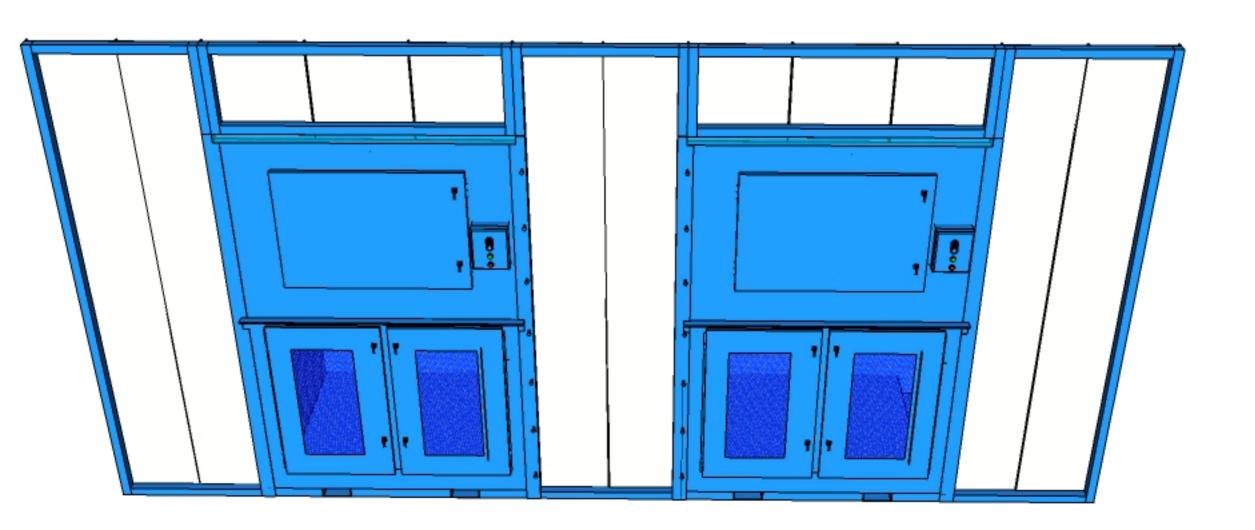


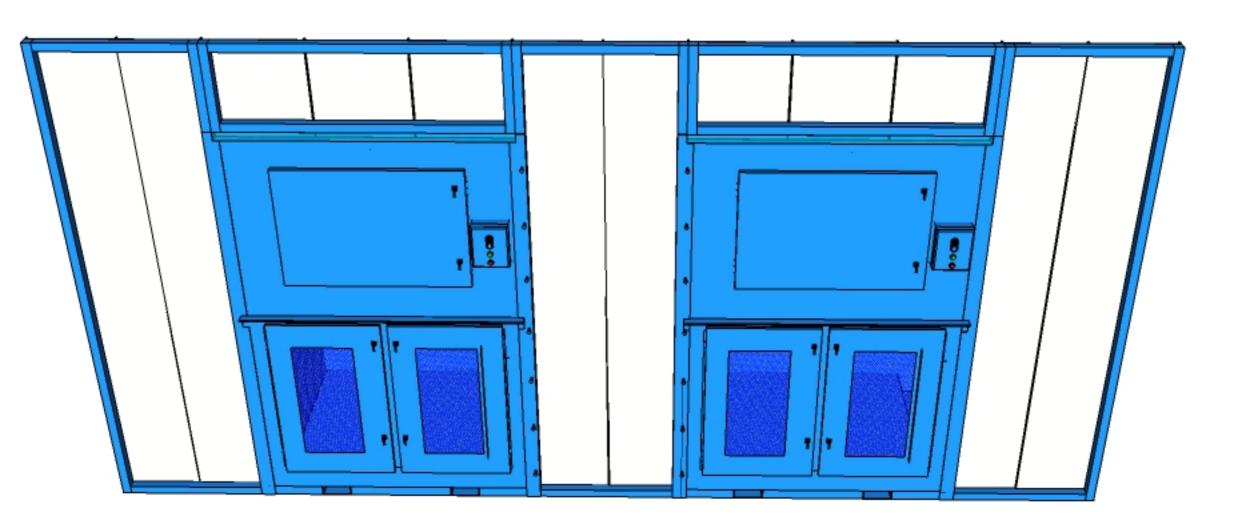
Set Top panels on the unit and place loosely the screw in the back bracket to hold in place Set Top panels on the unit and place loosely the screw in the back bracket to hold in place



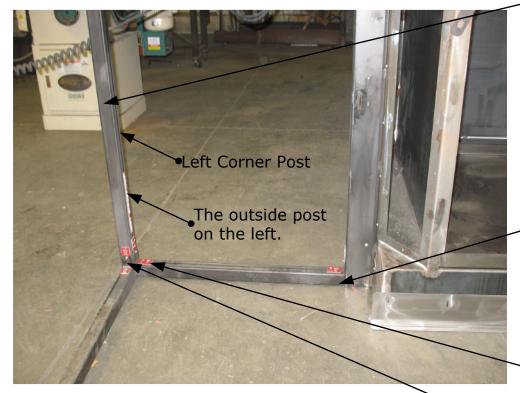
Now set the end panels and screw loosely to the left and right side of the power units and the top panels

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### The right and left corner post are the first post you need to locate



Locate these post first the numbers on the bottom will tell you the short piece on the floor, the number on the right side will indicate which post on the left side of the left power unit

This number will be on the bottom of the left

Numbers to locate the parts in the proper place.
All ODD numbers are on the floor Even numbers are on top.

The number on the post on the right side of the right power unit. will match the number on the short tube

Right corner post the very outside post on the right

Odd number to tell which tube for the floor

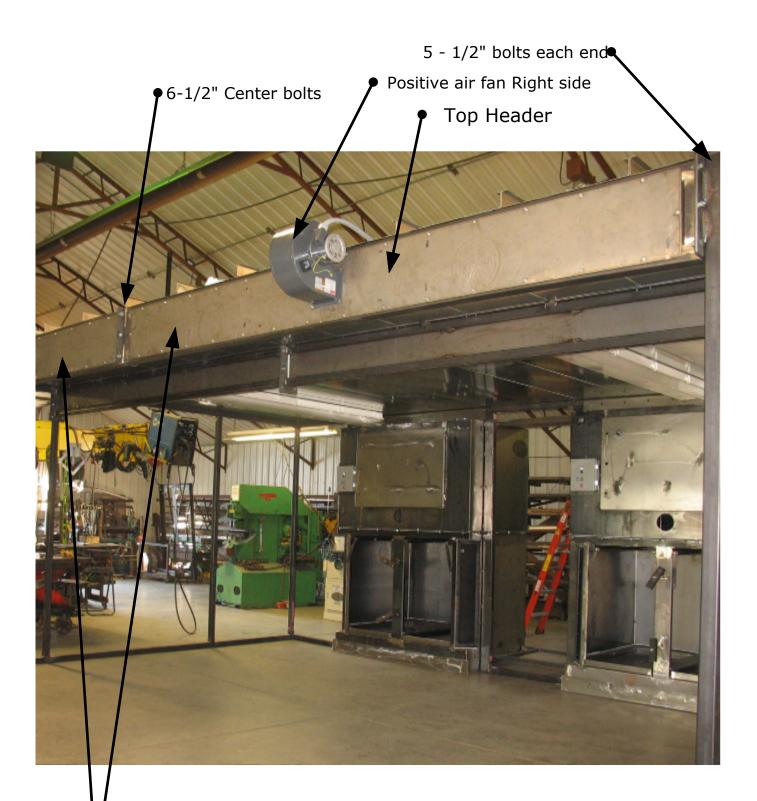




If your floor does not lay good and flat, caulking will need to be placed between the floor tube and the flooring.

This will prevent dust being blown under the tube when compressed air is being

used to blow items off



Bolt the left and right front header are to bolted together on the floor and lifted in place by a forklift. If your front is three piece you will have left and right POSI Air and the other is the center. Tighten the center bolts up before lifting in place. Locate all the bolts on the ends before tightening any of them.

Junction Box that seperates •all wireing for fans and lights.

On Top of Ceiling looking down beside the left power unit on the outside



This box is secured to the panels by 2 screws.

Conduit to switch box.

Top of switch box



▶Fan Switch

This switch box is held •in place by this bar squeezing the box to the plate.

Place velcro around this plate, so the vinyl will be secured to this plate. Put the vinyl on before the switch box is secured in place. You will have to cut out

the vinyl around the post that bolts to cross bar.

this the top trim, it will be a flat steel part with slots cut in it for screws to hold in place.



Knob that holds doors shut.



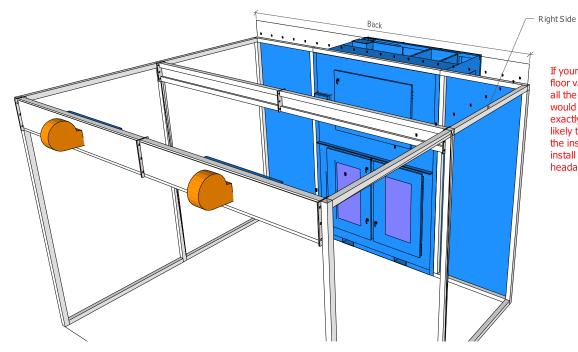
Dust drawers

Base Trim, 3 piece two sides one on the front.

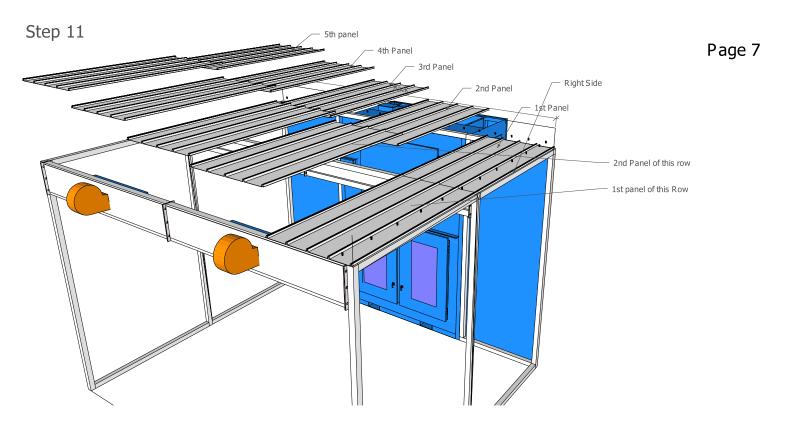
## Add on Instructions for Machines With Metal Tops

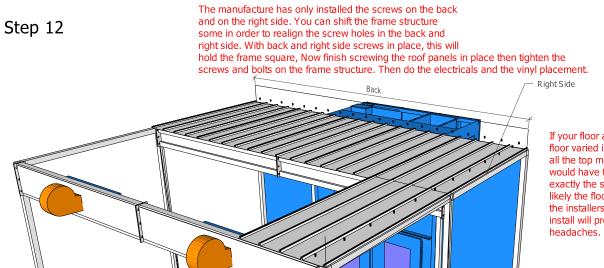
When installing the frame DO NOT Tighten any of the Screws or bolts in the frame, UNTIL the roof panels are

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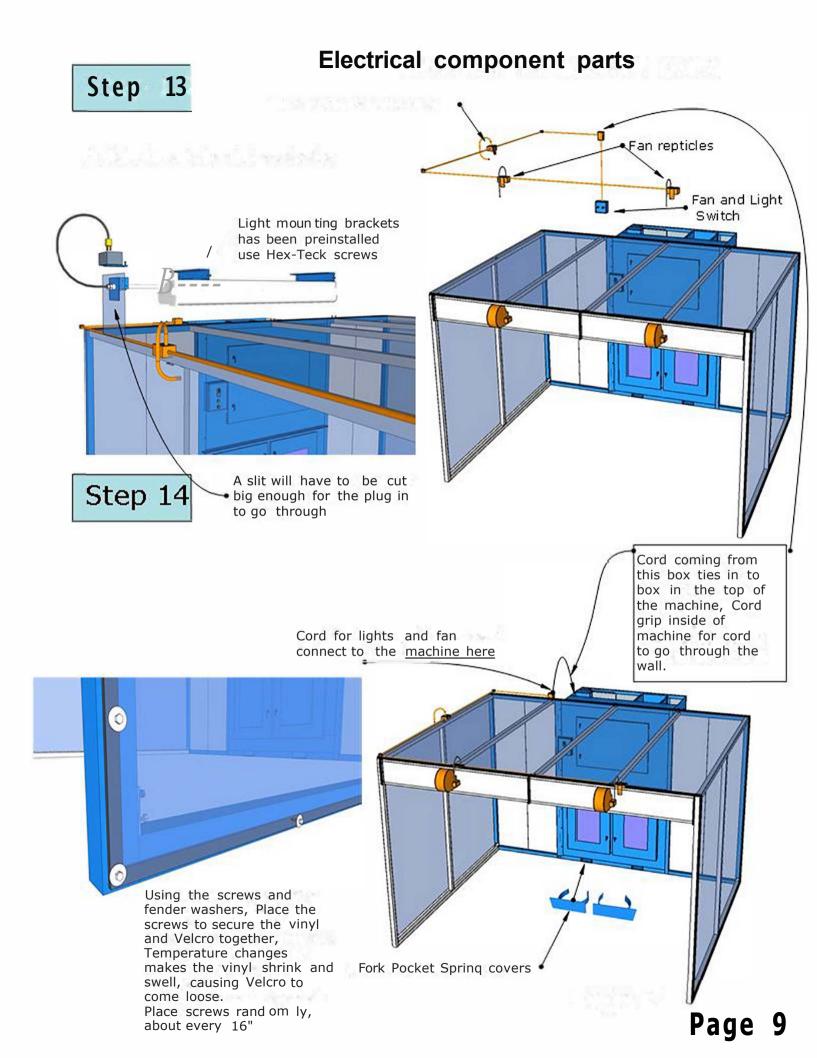
If your floor and the manufactures floor varied in level and they screwd all the top metal down, the installers would have to shim this frame to be exactly the same as theirs. Now most likely the floors will be different and the installers making new holes as they install will prevent a lot of installation headaches.



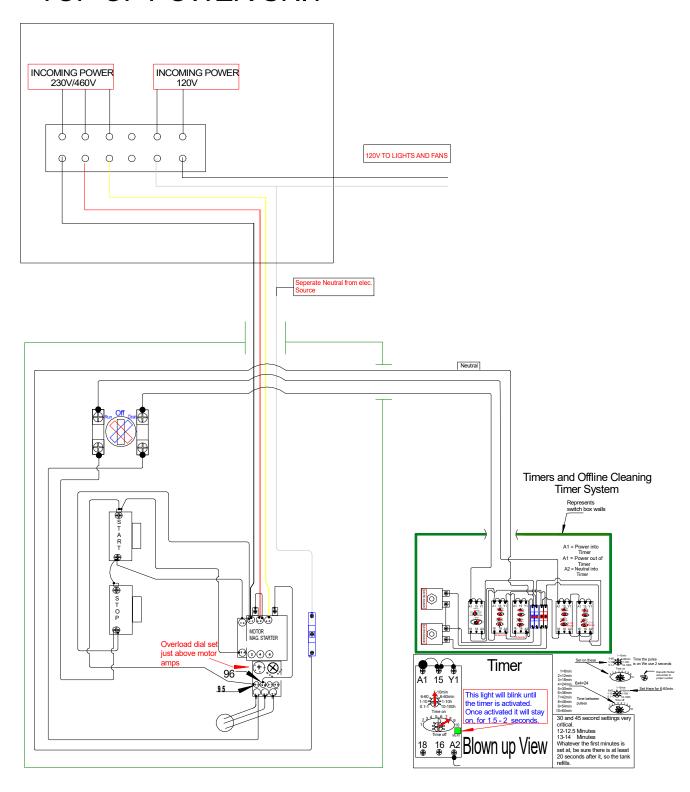


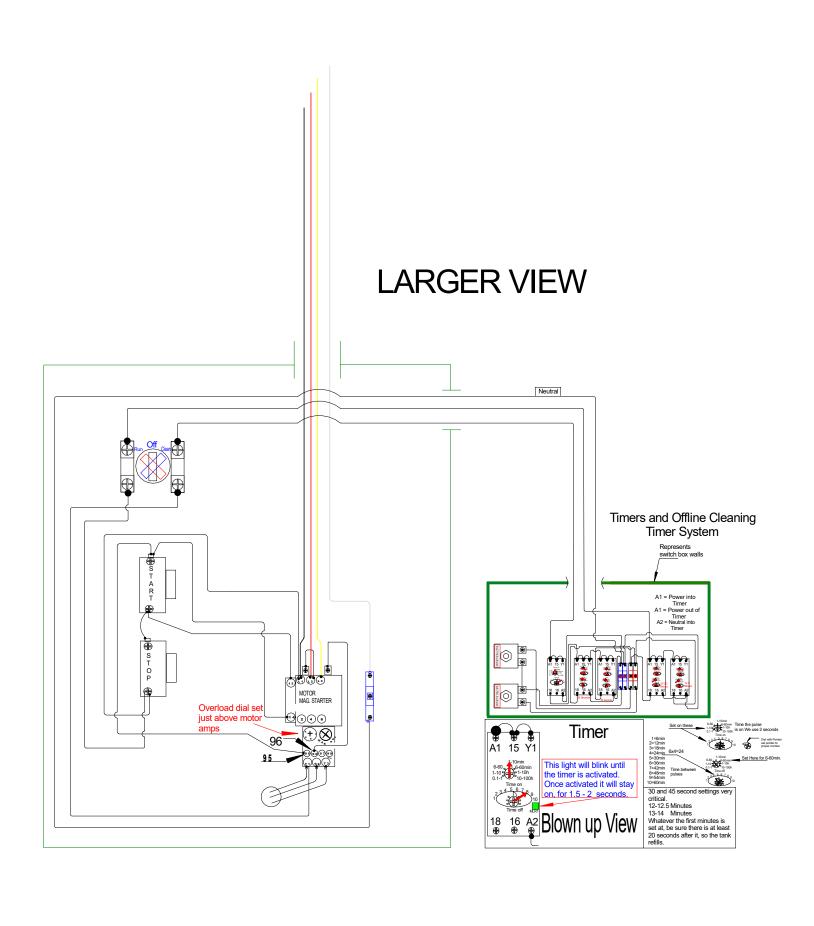
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## INCOMING POWER ON TOP OF POWER UNIT





## TROUBLE SHOOTING All the below solutions are meant to be done only by a qualified technician

1	Motor not running	Look to see if L1- L2 -L3 wires are in and secured and proper voltage is there	Check if wires at bottom of mag starter to the motor are in bottom and secured.
2	The above checks OK	In center of the contactor is a rectangle post that is hooked to coil below. With screwdriver push in and see if motor will run. If motor will run something is wrong with the push buttons, That activates the starter.	
3	Motor runs when center post is held in, but not by the switches	Make sure every wire is secured on starter if still no results call Denray for further assistance	
4	If center post is held in and nothing happens hook power leads to motor leads at bottom of mag starter if motor runs the problem is the starter.	Call factory for switch replace	ement
5	If on switch closes mag starter and motor does not run.	FIRST take tester and check proper voltage at botton	
6	If proper voltage is at bottom of starter	Check to see wiring at motor hooked together	r is properly
7	Mag starter works and motor only hums	Check for proper voltage check all wire connections to check wiring diagram and m	
8	Motor runs for a few minutes and shuts off	Turn the amp dial on overload number. Increase only 1 amp Never increase more than 2 full load amps	at a time
9	Filter Cleaning valve will not pulse	Check the three 1 amp fuse top of the transformer in the switch box.	es on
10	Fuses OK	Check wiring in front of and I	pehind the fuses
11	Fuses and wiring checks out OK	With it being quiet activate the to hear a clicking sound from	
12	You hear it clicking	Make sure air is hooked up to	o tank
13	Air is hooked up and it still clicks	Call Denray Replace valve	

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14	Machines with timers Timer not working	Check fuses:: Check wiring between mag starter and timer. Any loose connection, secure the connection	
15	Green light on timer does not work	See above Bad timer needs replacement	
16	Filters need to be cleaned more often	Turn dial on timer to a lesser number set at factory at approx. every 20 minutes.	
17	Lots of dirt remaining on filters after being cleaned	Decrease time between cleanings. Check air pressure going into machine. Keep between 100-140 psi	
18	Filter never completely cleans all dirt off	Not supposed to:: Machine designed to operate at 30% filter blockage. The cleaner a filter is the better the machine will perform.	
19	Loss of suction on top of table	Dirty filters :: Refer to above	
20	Excessive exhaust air on the floor	Any air that is sucked into the table top must come out in exhaust somewhere. Look into adding Muffler to machine	
21	Dirt packed in top 1/3 of filters	Rotate filters two times a week 1/4 turn	
22	Inside of filters are rusty colored	Blowing water from air tank inside of filter. Drain air tank more often ( daily if possible) Installation of a dryer or water trap may be necessary	
23	Filters will not come clean	Pull filters out of machine and take blow gun and from inside blowing out give filters a deep cleaning	
24	How often do I need to do the above	Some companies do it daily and some weekly and some monthly. You must determine that for yourself	
25	Moisture blowed in filters will make filters harder to clean	Refer to 22	
26	Are filters washable?	Spun-bond filters in the grind tables can be washed only a couple times and must let thoroughly dry. Filter cleaning service companies may be available in your area.	

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27	Fan making a loud roar	Fan rotation backwards, on three phase,switch wires on L1 and L2
28	Lack of proper suction	Fan running backwards will produce 2/3rds less suction check fan rotation  Verify Correct Fan Direction on your Machine
	Machine vibration on direct drive systems	All fans are factory balanced from fan company, fans checked and rebalanced at table MFG, if table has vibration, fan weights may need to be moved to another blade.