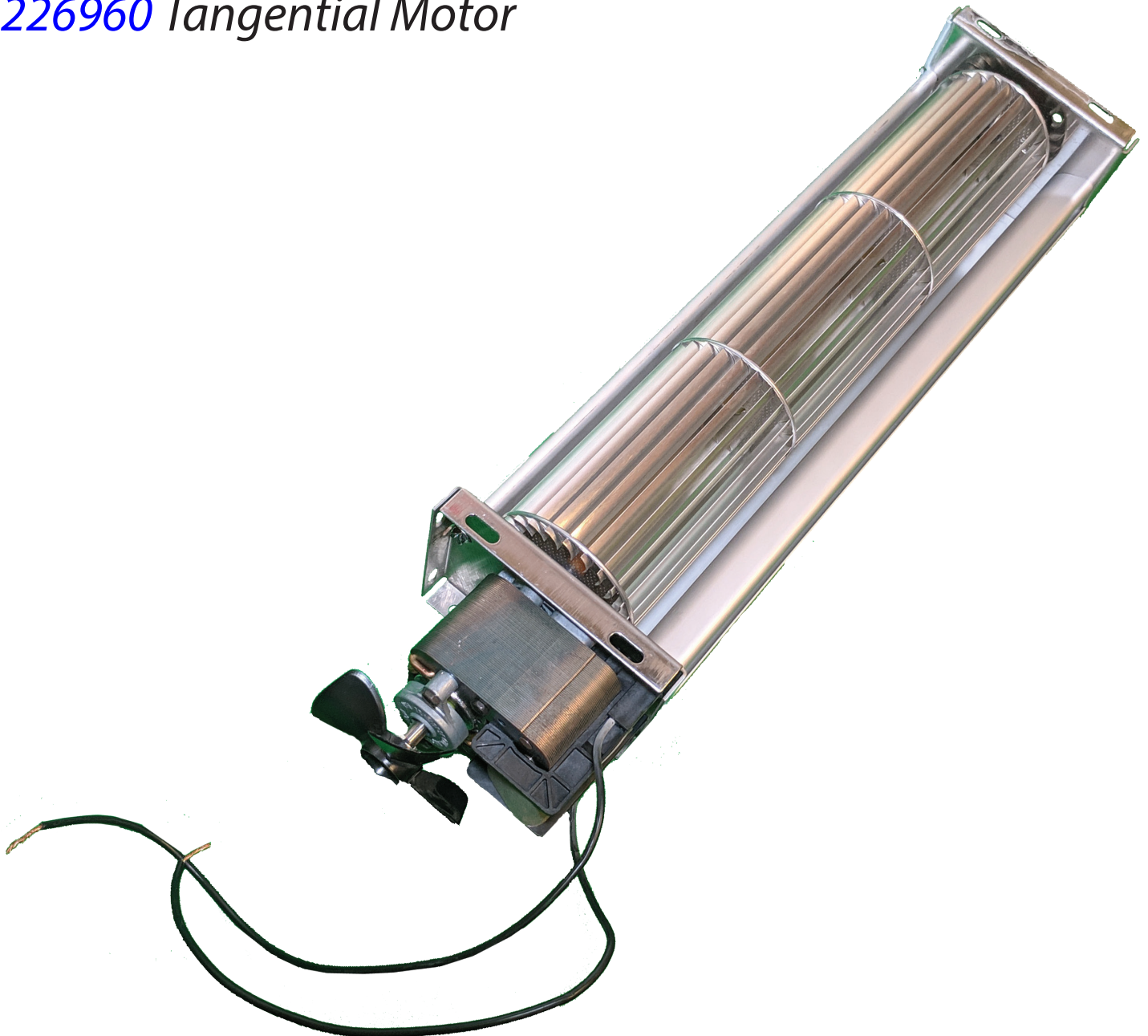




Your Solutions Partner

Instruction Sheet

226960 Tangential Motor



CAUTION: Please read these instructions completely before attempting to install, operate or service this equipment.

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**P/N 529202
REV C 02/11/2019**

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GENERAL INSTRUCTIONS



This installation should be done only by a certified technician.

These replacement instructions are for one person.

Please read these instructions completely before attempting motor replacement. Reading these instructions will save time and unnecessary lifting of equipment.

There are two different size units and the installation is different for each size. Please make sure you follow the correct section for motor replacement.

Do not discard any hardware as it will be needed to reinstall new motor.

In kit is a label:

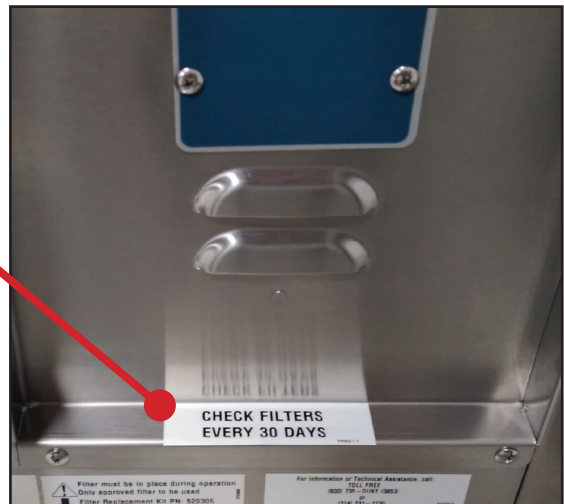
CHECK FILTERS EVERY 30 DAYS

Place this label on the bottom edge of the control panel just above the label:

***"Filter must be in place during operation
Only approved filter to be used***

Filter replacement kit PN: [520305](#)

See Image to Right



MOTOR REPLACEMENT 32" UNITS

TOOLS NEEDED FOR 32" UNITS



Phillips Screw Driver



Right angle adapter



Ratchet with 3/8" socket

2" extension



#2 Phillips tip

Cordless Drill

MOTOR REMOVAL 32" UNIT



Step 1

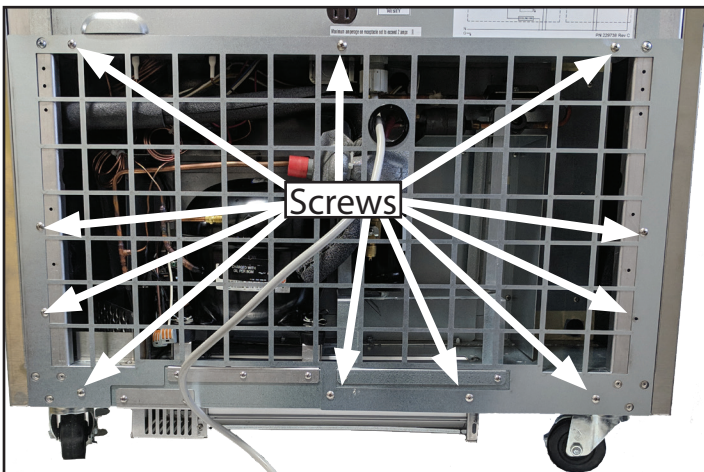
UNPLUG unit from power supply.

Step 2

Pull unit out to get full access to rear of unit.

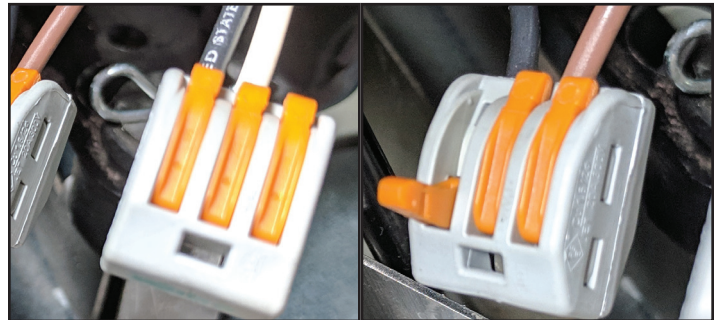
Step 3

Using Phillips screw driver remove 11 (eleven) screws holding back panel in place.



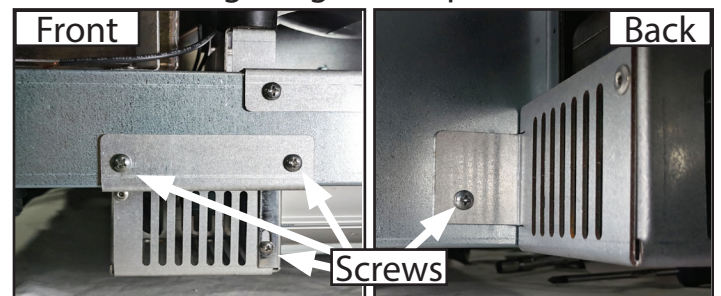
Step 4

Find the two Wago connectors for the motor fan and disconnect the black wires by lifting the orange tab.



Step 5

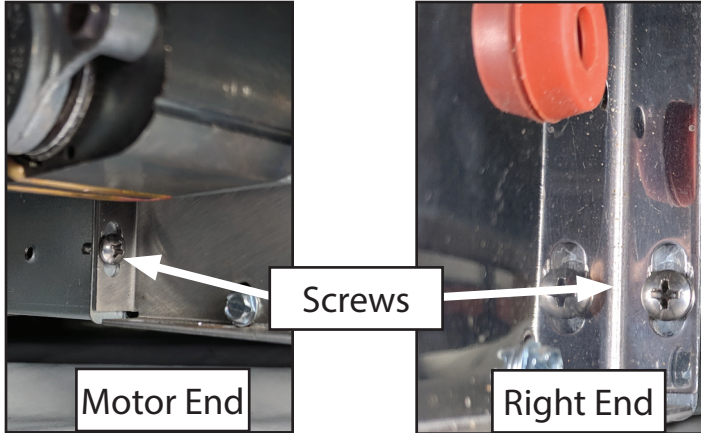
Using Phillips screw driver, remove four (4) screws holding fan guard in place.



MOTOR REMOVAL 32" UNIT - continued

Step 6

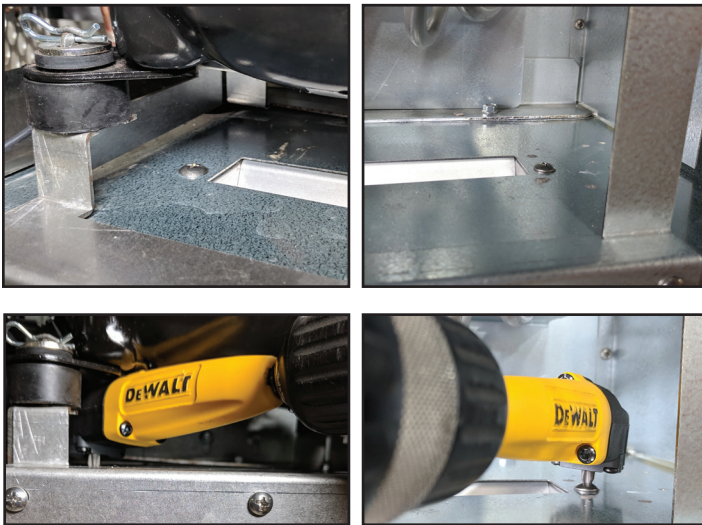
Using Phillips screw driver, remove two (2) screws holding fan to the panel behind it.



Step 7

Using the following remove the two (2) bolts and lock nuts holding the fan to the bottom of the unit.

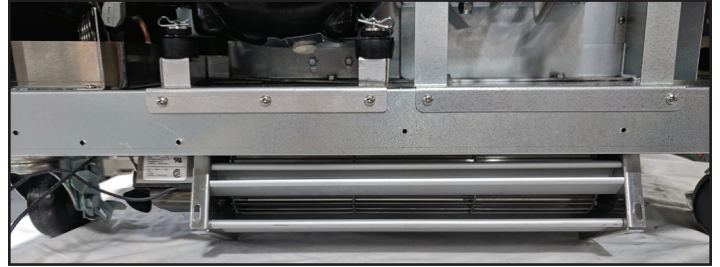
- 3/8" Ratchet with extension and reducer if needed.
- Right angle adapter for the cordless drill.



NOTE: Compressor cotter pins may need removed to give enough room under compressor.

Step 8

With motor all the way back: Rotate top of motor towards you.

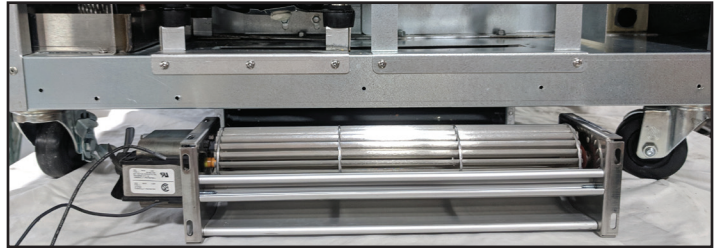


CAUTION

There is no reason to lift unit to get motor out.

Step 9

Continue to rotate motor so it is on it's side. Gently pull from under unit.



Step 10

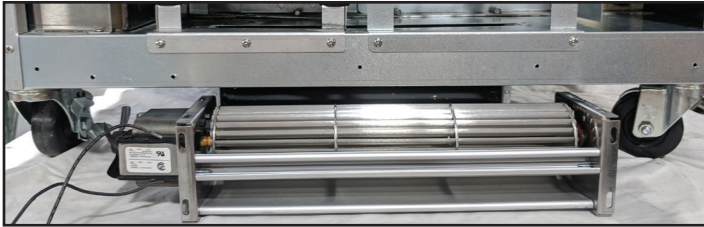
Pull wire leads from under unit.



MOTOR INSTALLATION 32" UNIT

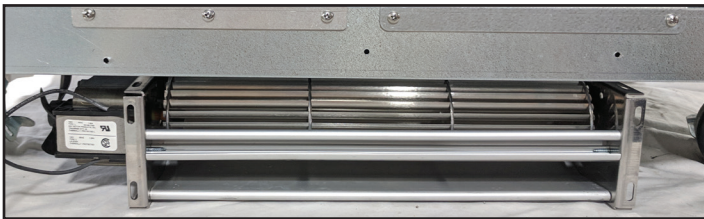
Step 1

Set motor in front of unit as illustrated below. Exhaust towards you with motor on left.



Step 2

Slide motor straight back and align with duct.



CAUTION There is no reason to lift unit to get motor under unit.

Step 3

Rotate motor up and away from you.



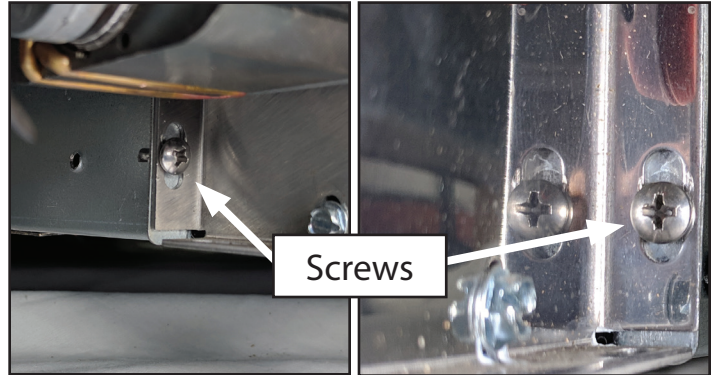
NOTE: If fan motor will not rotate you need to shift the motor to right or left to line up with duct work.



NOTE: Motor will rotate up unto duct.

Step 4

Using Phillips screw driver secure motor at each end to duct work.

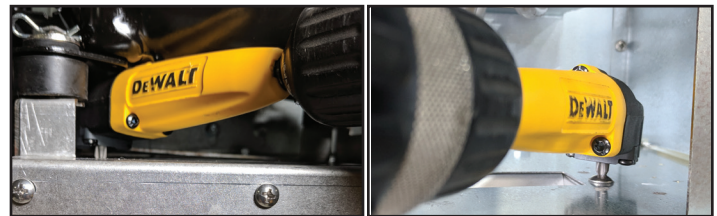


NOTE: Make sure motor is against bottom before tightening screws.

Step 5

Using the following install the two (2) bolts and lock nuts to hold the fan to the bottom of the unit.

- 3/8" socket and ratchet with extension and reducer if needed.
- Right angle adapter for the cordless drill.



NOTE: Compressor cotter pins may need removed to give enough room under compressor.



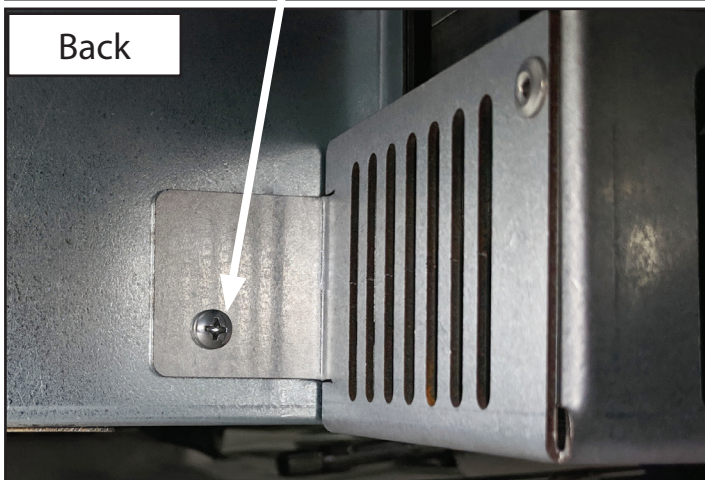
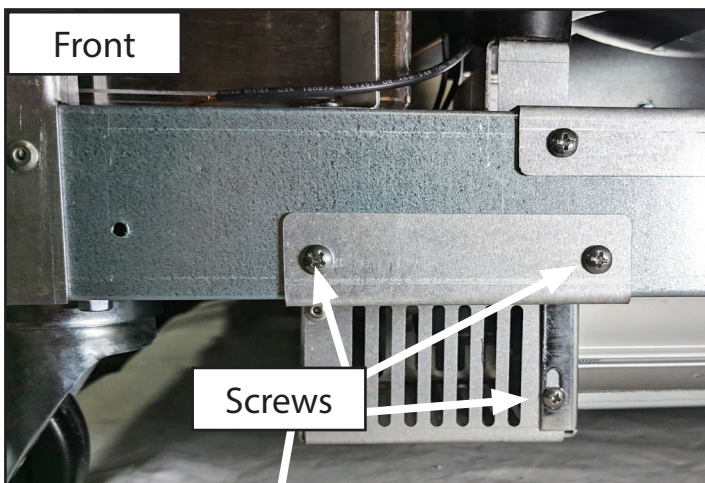
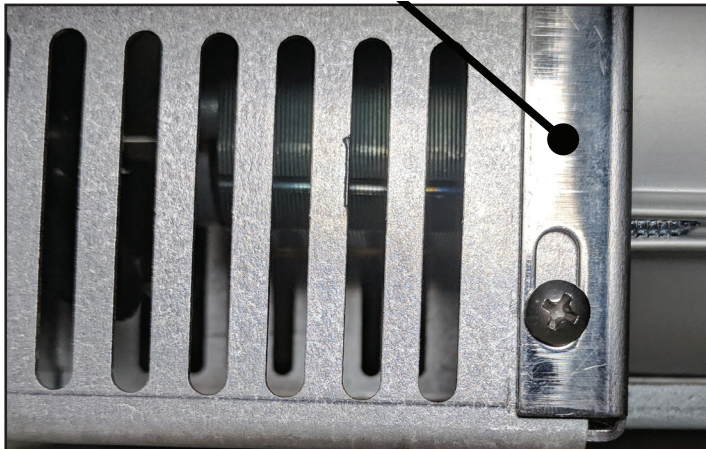
MOTOR INSTALLATION 32" UNIT - continued

Step 6

Using Phillips screw driver, install four (4) sheet screws to install fan guard in place.



**NOTE: Positions of guard to motor frame.
See Illustration below.**



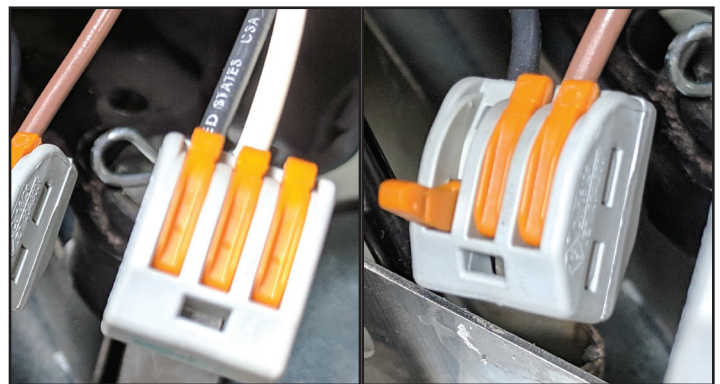
Step 7

Route Wire from bottom up through strain relief into unit.



Step 8

Find the two Wago connectors for the motor fan and reconnect the black wires by inserting the wire connectors and closing the orange tab.



MOTOR INSTALLATION 32" UNIT - continued

Step 9

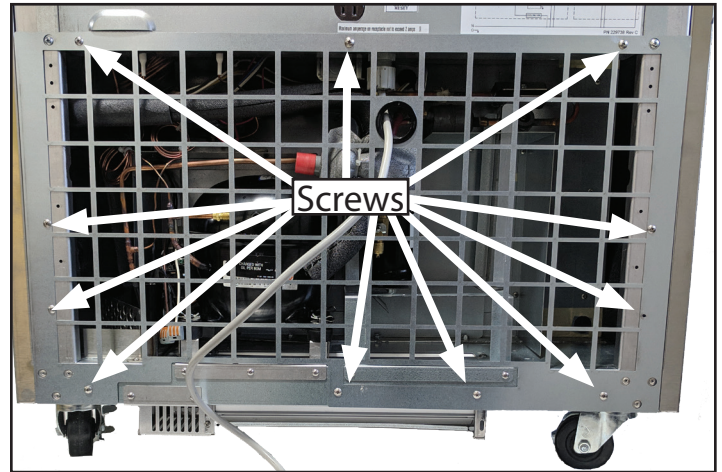
Using Phillips screw driver install back panel with 11 (eleven) screws.

Step 10

Put unit back in place.

Step 11

Restore power to the unit and check motor operation.



MOTOR REPLACEMENT 38" UNITS

TOOLS NEEDED FOR 38" UNITS



Ratchet with 3/8" socket



2" extension



Phillips Screw Driver

MOTOR REMOVAL 38" UNIT



CAUTION

Step 1

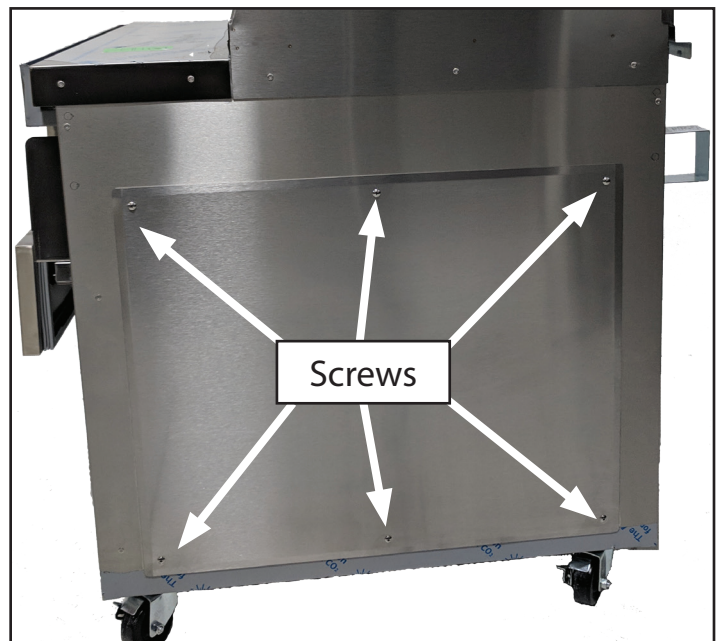
UNPLUG unit from power supply.

Step 2

Pull unit out to get full access around unit.

Step 3

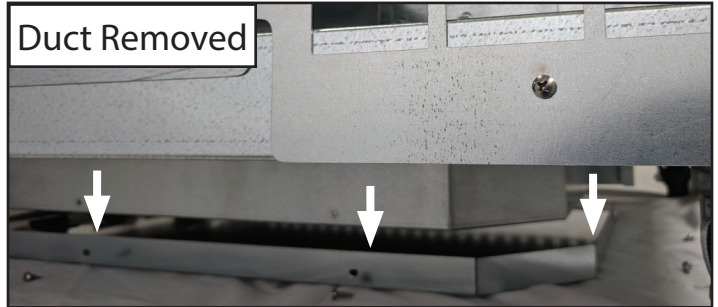
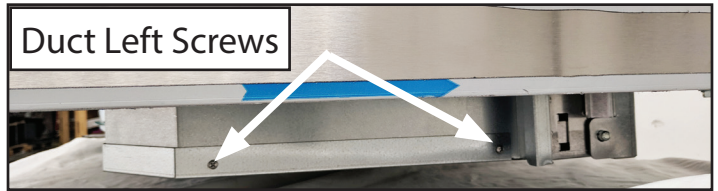
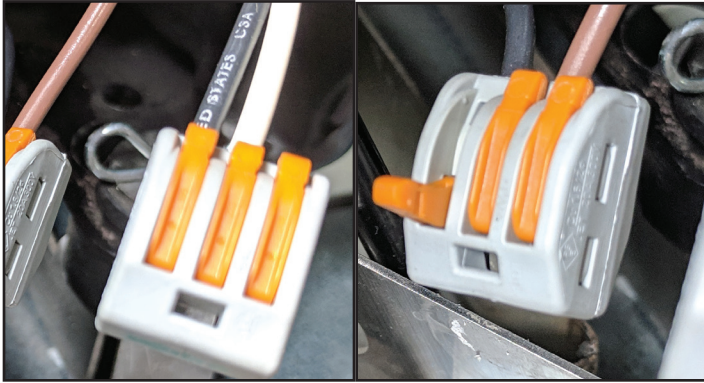
Using Phillips screw driver remove right side access panel 6 (six) screws.



MOTOR REMOVAL 38" UNIT - continued

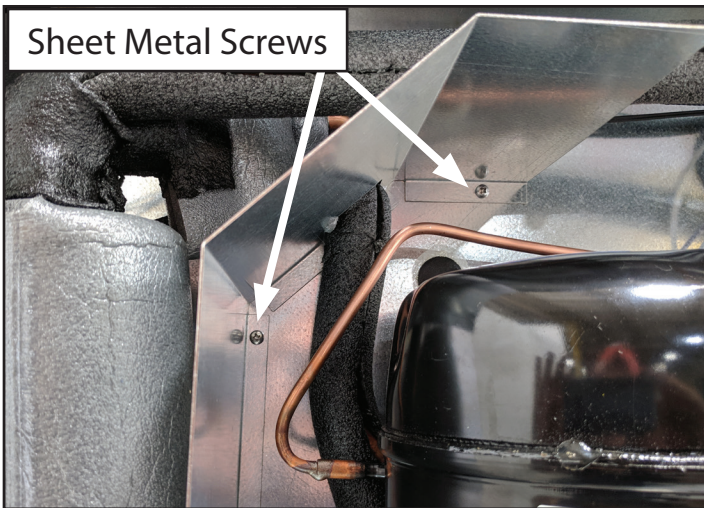
Step 4

Find the two Wago connectors for the motor fan and disconnect the black wires by lifting the orange tab.



Step 5

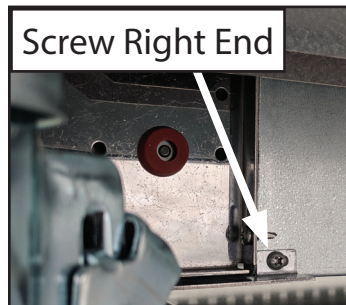
Remove compressor guard to gain access to fan motor bolts by removing two (2) sheet metal screws.



Step 7

Remove motor fan guard by removing:

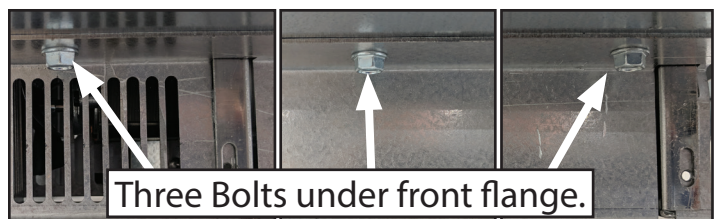
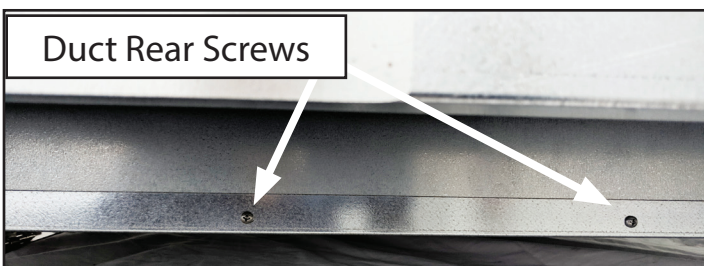
1. Three (3) sheet metal screws (a.) two on front side. (b.) one on right side.
2. One bolt and lock nut - left side behind grill.
3. Three Bolts under front flange.



Step 6

Remove bottom duct cover by removing

1. two (2) sheet metal screws from the back
2. two (2) sheet metal screws from the left side.



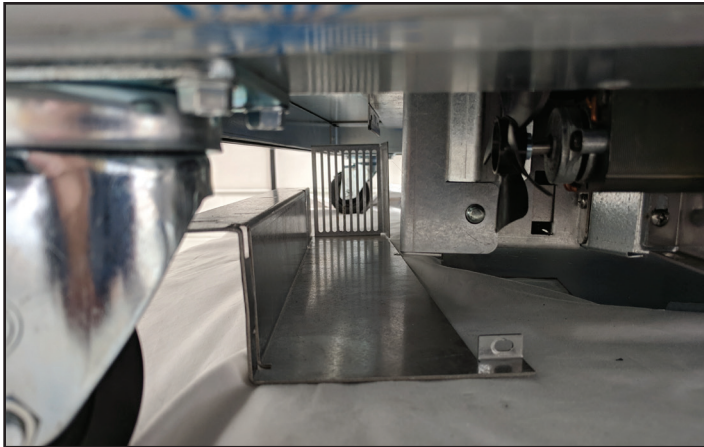
MOTOR REMOVAL 38" UNIT - continued

Step 8

Slide guard down and move around to left side.

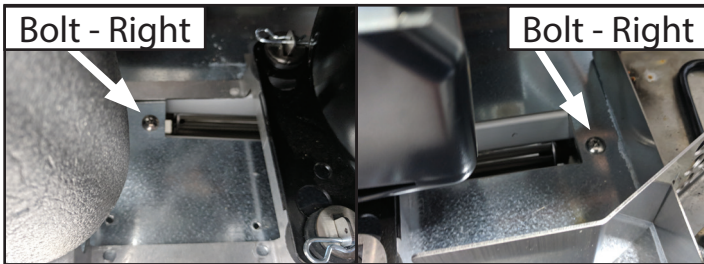


NOTE: Do not remove from under unit.



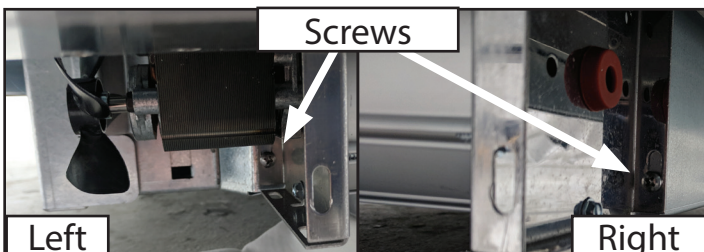
Step 9

Using a ratchet with 3/8" socket and a two (2") inch extension and a Phillips screw driver, remove bolt and lock nut securing motor to bottom of unit on both ends.



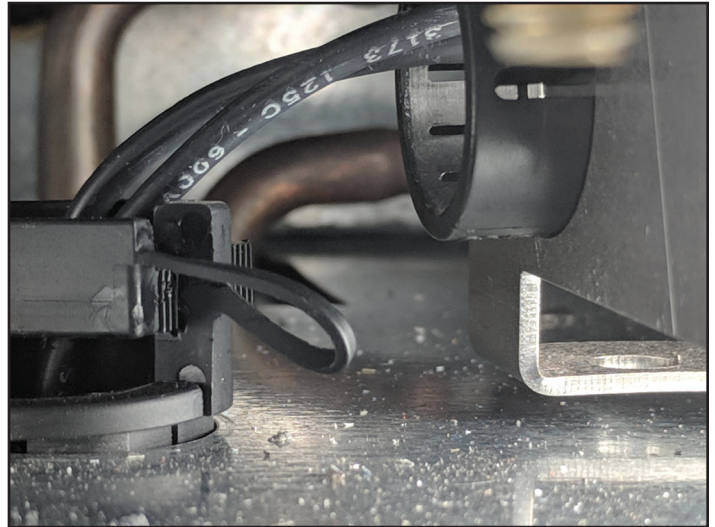
Step 10

Using a Phillips screw driver, remove sheet metal screws from each end of motor frame. The fan motor should drop down from unit.



Step 11

Pull fan motor wires from strain relief.



Step 12

To remove motor, Push motor back against duct. Slowly rotate top of fan motor towards you until sitting on side.



CAUTION

There is no reason to lift unit to get motor out.

Step 13

Slide fan motor out from under unit.



MOTOR INSTALLATION 38" UNIT

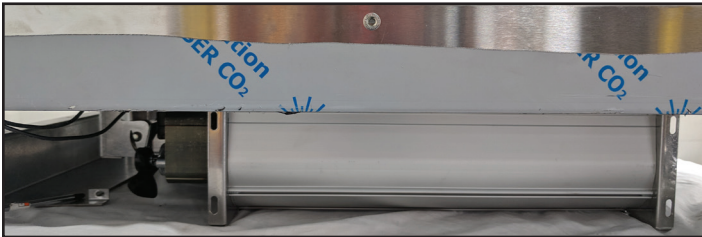
Step 1

Set motor in front of unit as illustrated below. Exhaust towards you with motor on left.



Step 2

Slide motor straight back and align with duct. Rotate motor up and away from you.

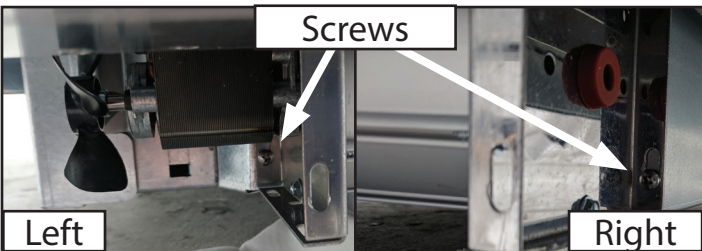


NOTE: Motor will rotate under unit.

CAUTION There is no reason to lift unit to get motor under unit.

Step 3

Using Phillips screw driver and two Sheet metal screws secure motor at each end to duct work.

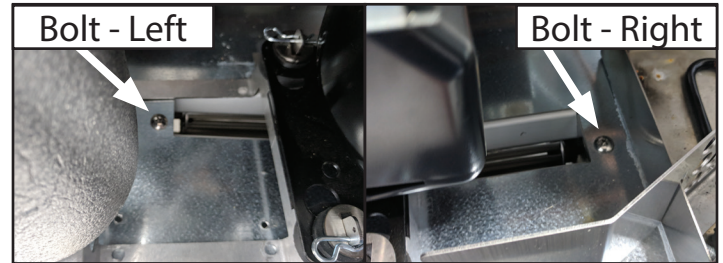


NOTE: Make sure fan motor is tight against bottom before tightening the sheet metal screws.

Step 4

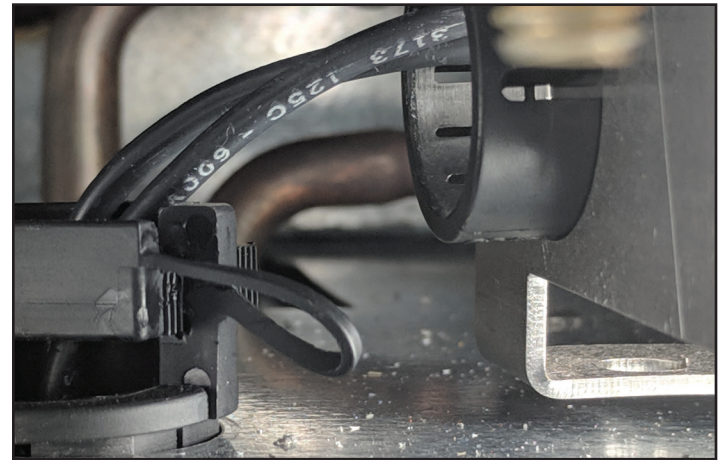
Using the following install the two (2) bolts and lock nuts to hold the fan to the bottom of the unit.

- 3/8" socket and ratchet with extension and reducer if needed.
- Phillips Screw Driver.

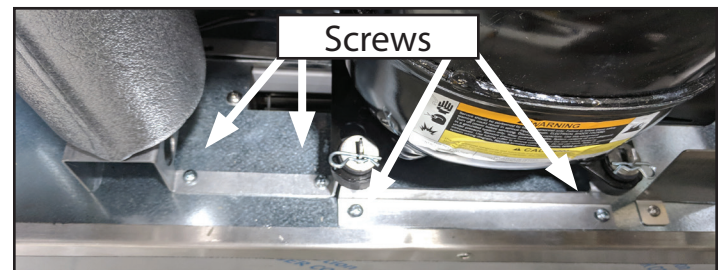


Step 5

Route fan motor wires through strain relief and grommet into main cabinet.



NOTE: The four (4) screws holding down compressor frame may need to be temporarily removed so compressor can be moved to get access to strain relief



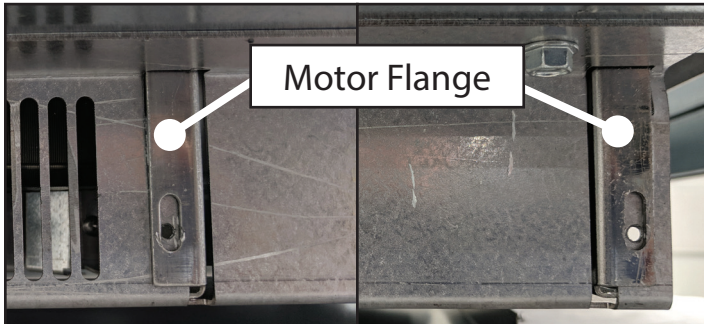
MOTOR INSTALLATION 38" UNIT - continued

Step 6

Slide guard around to front and slide up on fan motor.



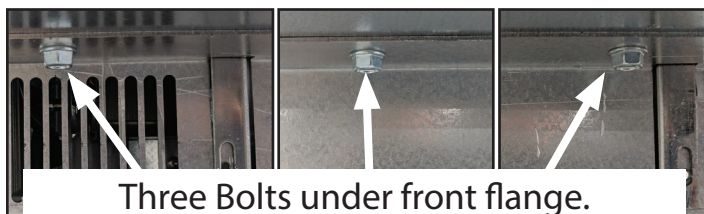
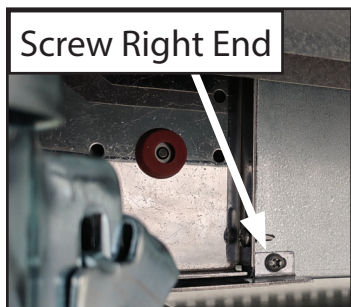
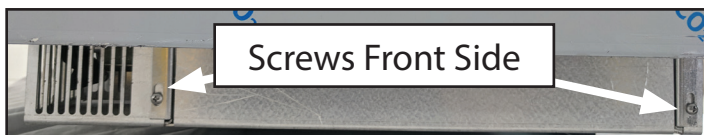
NOTE: Positions of guard to motor frame. See Illustration below. Guard is behind fan motor flange.



Step 7

Secure motor fan guard by installing:

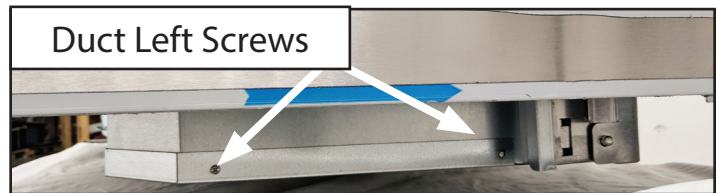
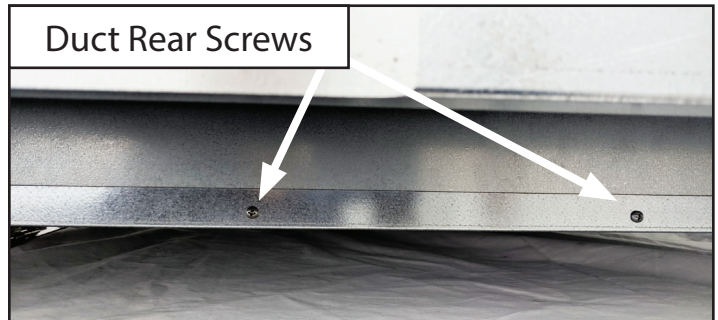
1. Three (3) sheet metal screws (a) two on front side. (b) one on right side.
2. One bolt and lock nut - left side behind grill.
3. Three Bolts under front flange.



Step 8

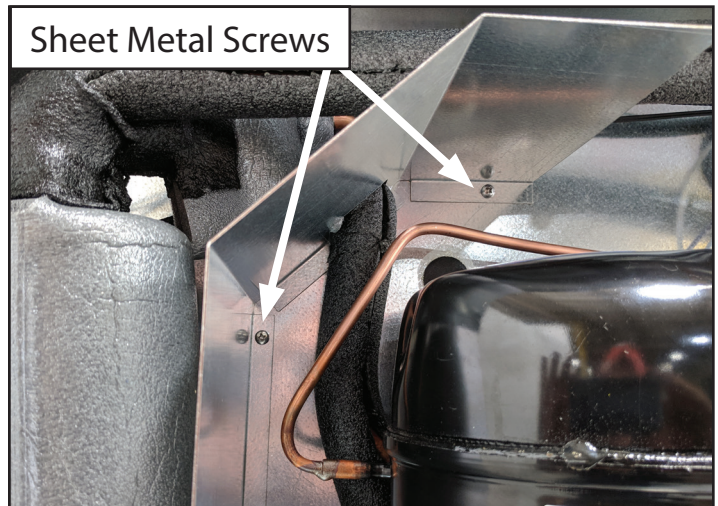
Secure bottom duct cover by installing

- Two (2) sheet metal screws in the back
- Two (2) sheet metal screws in the left side.



Step 9

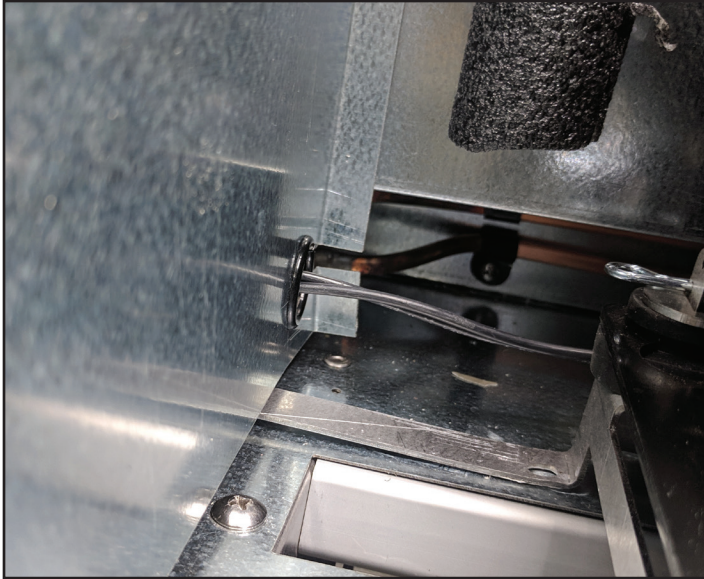
Secure compressor guard by installing two (2) sheet metal screws.



MOTOR INSTALLATION 38" UNIT - continued

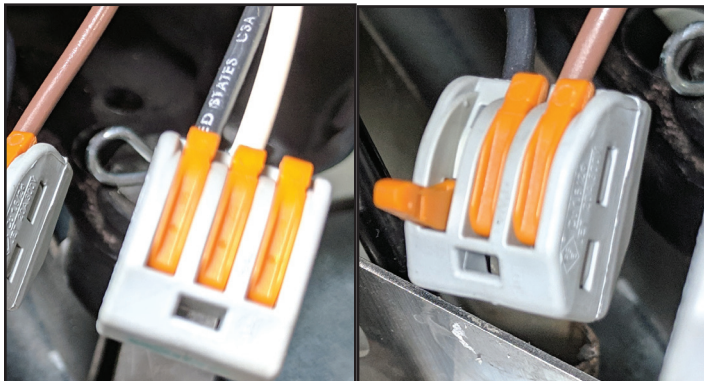
Step 10

Make sure grommet is back in place so wire do not ride on sharp edges.



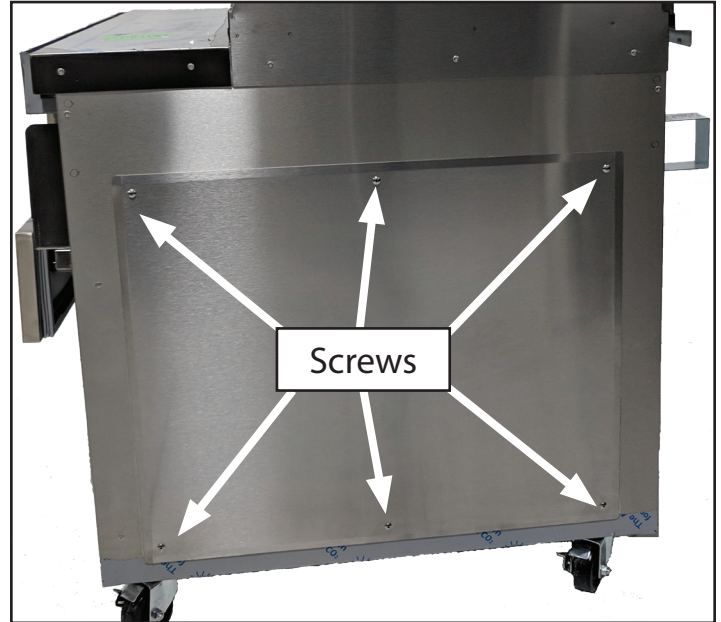
Step 11

Find the two Wago connectors for the motor fan and reconnect the black wires by inserting the wire and closing the orange tab.



Step 12

Using Phillips screw driver install back panel with 6 (six) screws.



Step 13

Put unit back in place.

Step 14

Restore power to the unit and check motor operation.



Your Solutions Partner

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