



Service Kit Blower Replacement for DrizAir® 1200 (F203-A) Dehumidifier

S598

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Description

This kit includes parts and instructions for replacing the blower on the DrizAir 1200 (F203-A) portable dehumidifier.

Materials included:

Replacement Blower (08-00257-AP)
4 X 1/4"-20 X 1-1/4" bolts (03-01479)
4 X 1/4"-20 nut (03-01848)
4 X 1/4" split lock washers (03-00244)
8 X 1/4" flat washers (03-00018)
Capacitor riveted to electrical box lower panel (09-01559, 03-01482, and 08-00219)
Black wire lead with piggyback terminal (02-02228)
Push mount – nylon tie (03-00771)
Cable Tie – 11" (03-00813)
Cable Tie – 4" (03-00012)
1/4"-20 X 1/2" thread cutting screw (03-02060)
2 X #8-32 X 1/4" electrical box lower panel mounting screws (03-00962)
Nylon bushing (03-00126)
#10-24 nut for electrical box ground stud (03-00038)

Recommended Tools:

Drill with 1/4" bit
1/4" Nut Driver
3/8" Nut Driver
5/16" Open End Wrench
7/16" Open End Wrench
3/8" Open End Wrench
Side Cutters
Needle Nose Pliers
Ratchet with 10"+ extension and swivel adapter
5/16" and 3/8" Sockets
Philips Head Screwdriver
Aligning Punch

WARNING

This product may expose you to chemicals, including lead and phthalates, known to the State of California to cause cancer, birth defects, or other reproductive harm. For more information, go to P65Warnings.ca.gov

IMPORTANT: BEFORE WORKING ON UNIT PERFORM THE FOLLOWING

Drain system

Disconnect from power

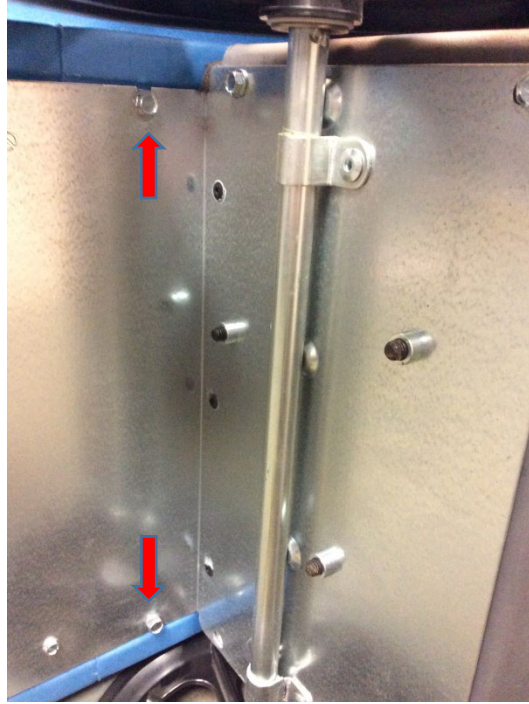
⚠ WARNING

Risk of electric shock. Disconnect unit from power before servicing.

Using the ratchet and 3/8" socket, remove the six bolts that secure the front cover of the unit and remove the cover.

Note: Longer screws used at the top of the housing.





Using drill and 1/4" drill bit, drill out the four large rivets that secure the plastic duct ring and upper hose wrap bracket with large circular motions. After drilling out rivets, the rivet ends and attached washers that have fallen into the unit will need to be removed. The rivet pieces and washers can more easily be removed after the blower has been completely removed at a later step in the instructions.



Using drill and 1/4" drill bit, drill out the small rivet that secures the blower flange to the plastic housing of the unit. With rivet removed, use the drill to create a clean 1/4" hole in the plastic housing for proper attachment of the replacement blower in a later step.



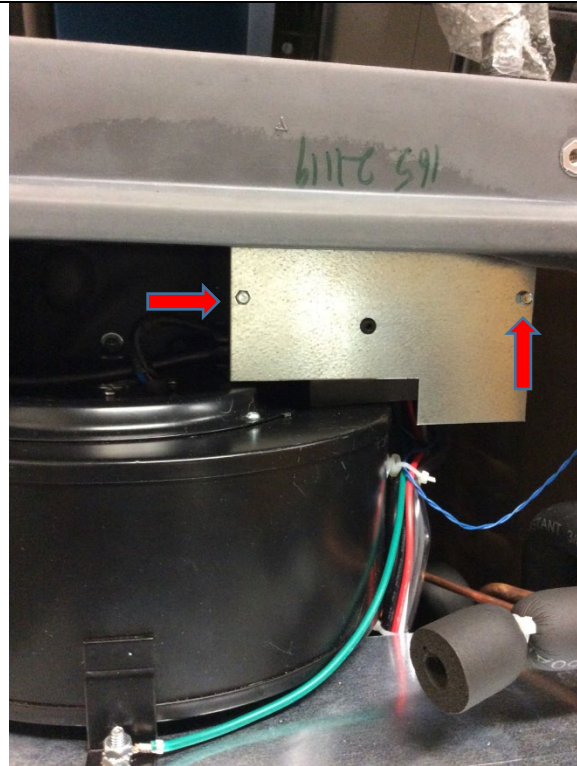
Using the 3/8" nut driver, remove the two nuts securing the blower bracket to the top of the refrigeration coil and the ground wire end attached to the ground stud on the refrigeration coil.



Using Philips screwdriver, remove the four screws that secure the control panel assembly to the unit housing.

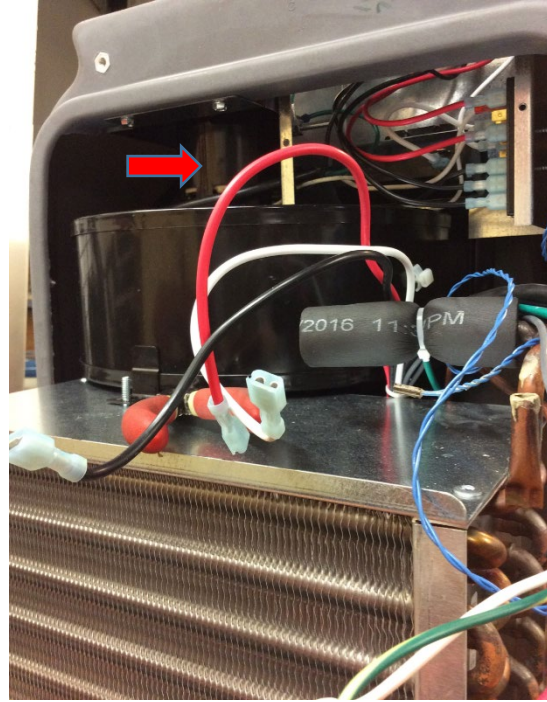


Remove the two 1/4" screws that secure the lower panel to the electrical box using the 1/4" nut driver. Depending on the original blower in the unit, the photo may not accurately match the actual blower and electrical box.



With plastic housing front section removed, determine which style of blower is originally installed in the unit. The style of blower will impact certain steps for removal and replacement of the blower. If the originally installed blower is the 08-00257 blower, go to page 10 in the instructions, otherwise continue through the instructions.

The 08-00257 blower has motor windings on top of the housing:



08-00257 blower

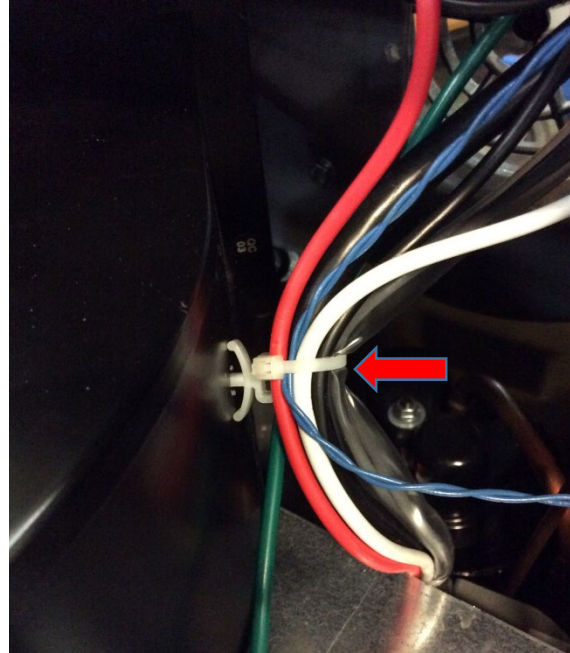
The 08-00257-AP blower has motor windings inside blower housing. If your unit is equipped with this blower, proceed to the next row below for instructions.



08-00257-AP blower

For 08-00257-AP Blower:

Using the side cutters, remove the cable tie that attaches the wire bundle to the push mount tie on the side of the blower.



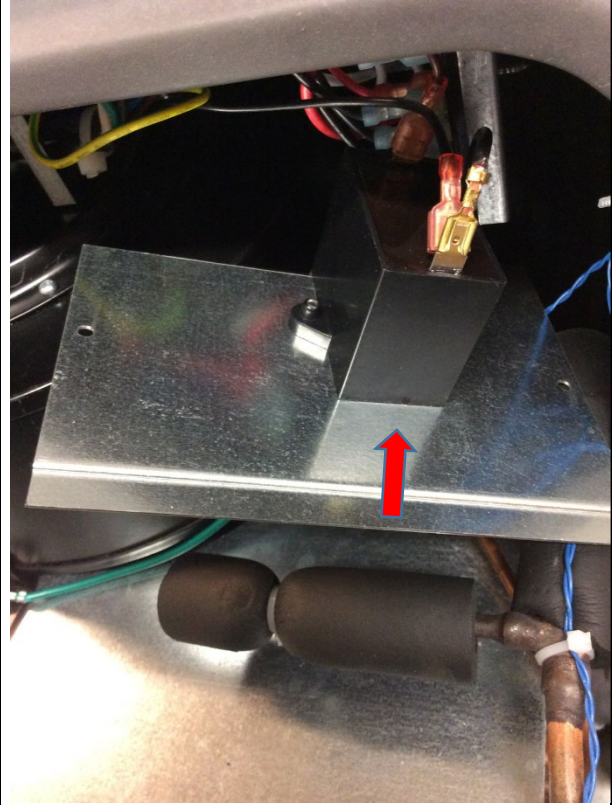
For 08-00257-AP Blower:

Raise the control panel assembly enough to pull the lower panel from the electrical box to access the lead wires attached to the capacitor. Disconnect brown and black lead wires from the capacitor attached to the electrical box lower panel and remove the electrical box lower panel.



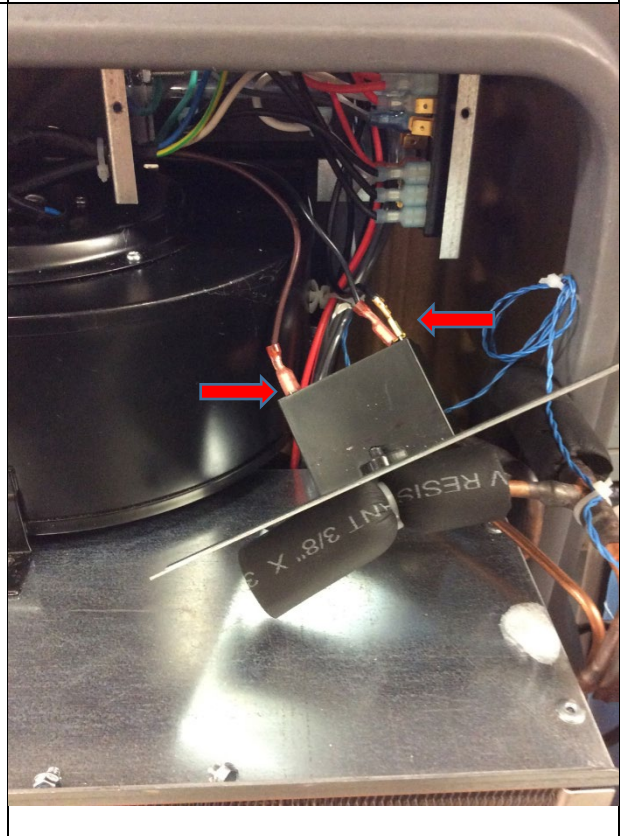
For 08-00257-AP Blower:

Rotating the capacitor may be necessary to pull the lower panel away from the electrical box:



For 08-00257-AP Blower:

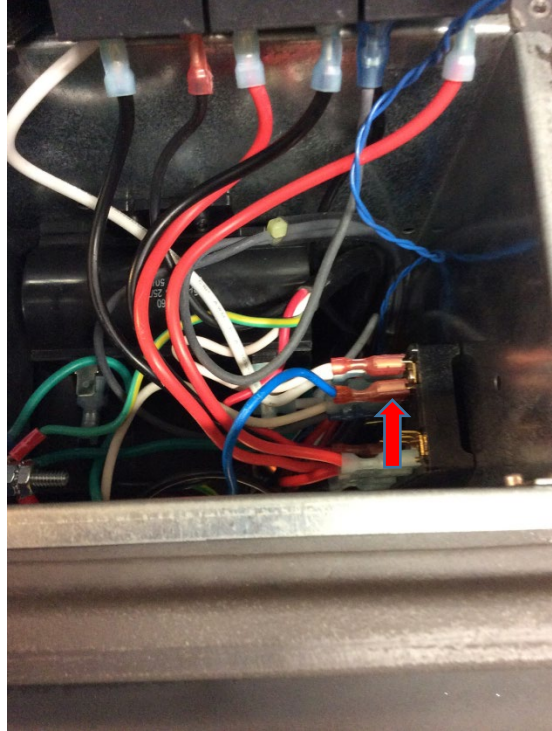
Disconnect all brown and black lead wires from the capacitor.
Disconnect black blower lead wire from the piggyback terminal it was attached to.



For 08-00257-AP Blower:

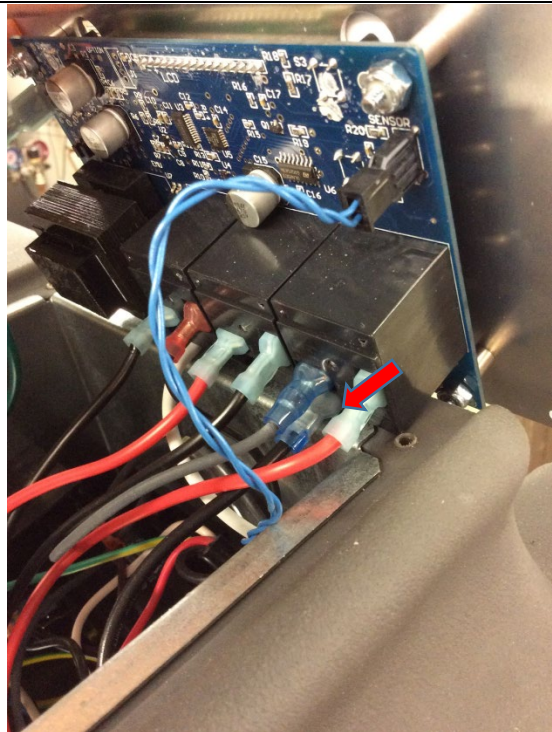
Remove last nut on the ground stud using a 3/8" open end wrench to disconnect the green/yellow blower ground wire. Using needle nose pliers, disconnect blue blower wire from terminal block and disconnect the terminal on the black lead wire coming from the capacitor that is attached to the relay. With all blower wires disconnected, remove the original blower. Go to page 17 to finish the installation of the new replacement blower.

Blower blue wire attached to terminal block:



For 08-00257-AP Blower:

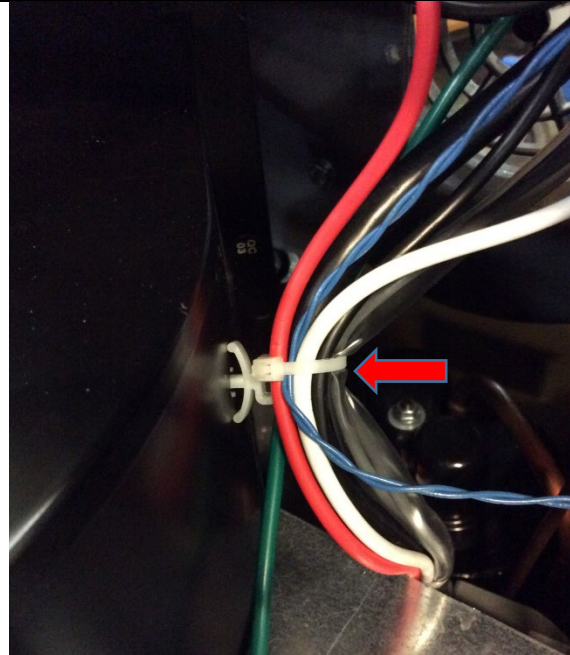
Black lead wire coming from capacitor attached to the relay:



For 08-00257 Blower:

Using the side cutters, remove the cable tie that attaches the wire bundle to the push mount tie on the side of the blower.

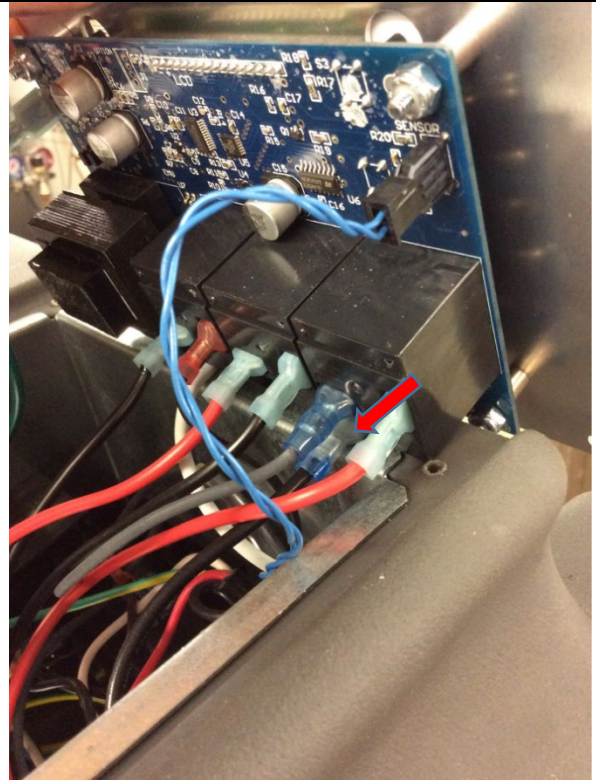
Cable tie securing wire bundle to the push mount tie:



For 08-00257 Blower:

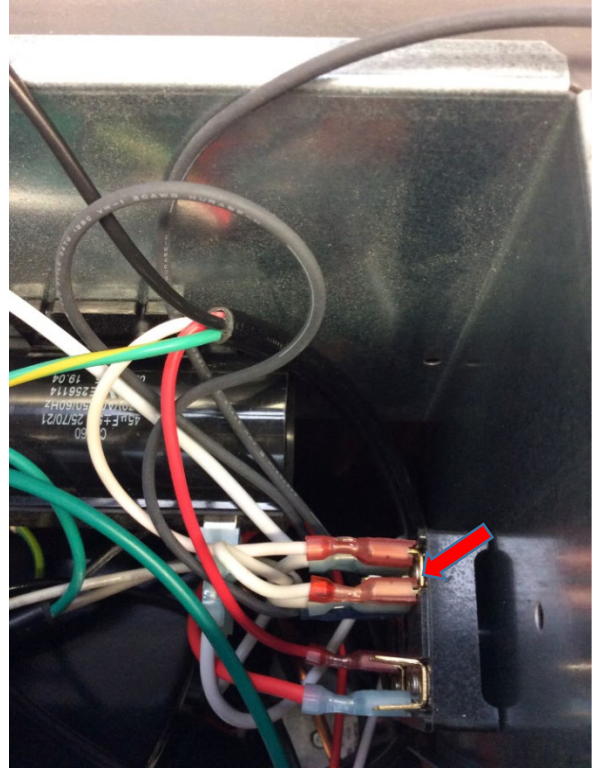
Lift the control panel and using needle nose pliers, disconnect black blower wire from the PCBA relay and white blower wire from the terminal block.

Disconnect black blower wire from PCBA relay:



For 08-00257 Blower:

Disconnect white blower wire from terminal block



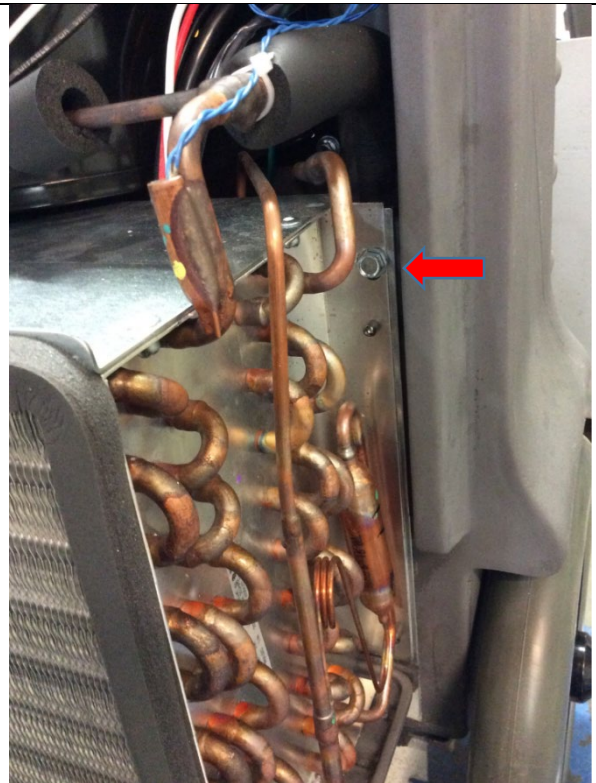
For 08-00257 Blower:

Position the unit to access the bolts that secure the plastic housing back section to the base. Using the ratchet and 3/8" socket, remove the 4 bolts that secure the plastic housing back section to the metallic base.



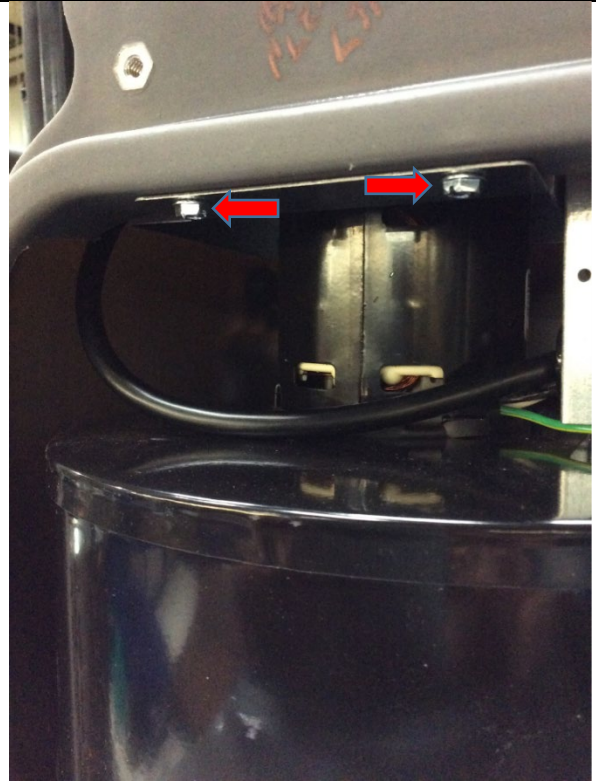
For 08-00257 Blower:

Using the ratchet, swivel adapter, and 3/8" socket remove the two bolts that secure the refrigeration coil to the plastic housing back section.



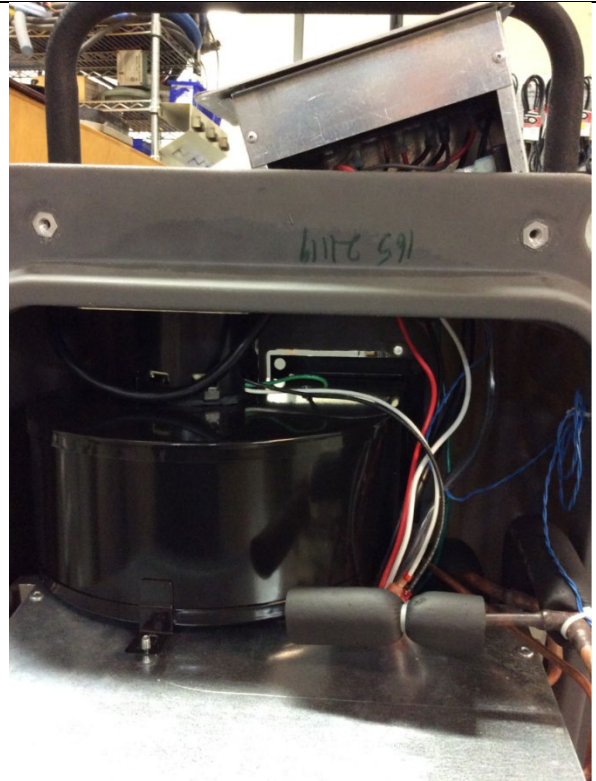
For 08-00257 Blower:

Using a 5/16" open end wrench, remove the two screws that secure the blower shield to the plastic housing back section.



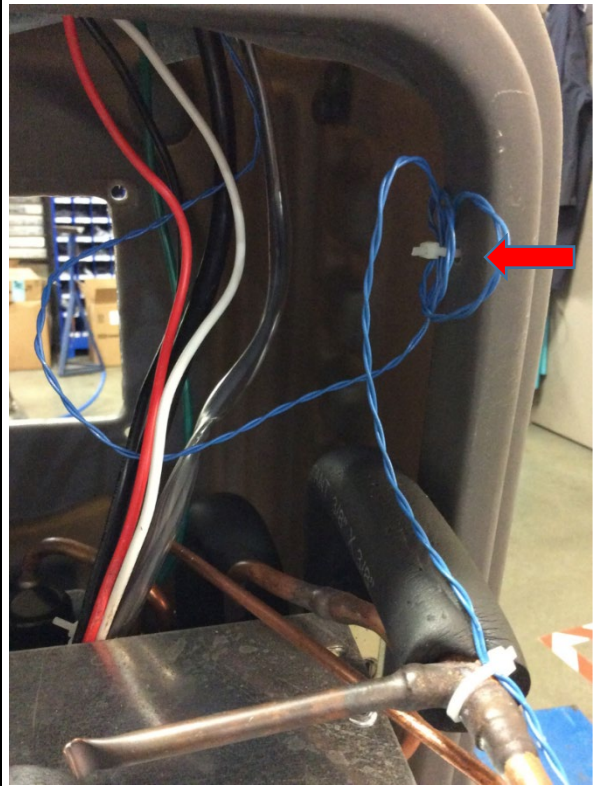
For 08-00257 Blower:

Raise the electrical box and adjust the blue sensor lead wire coil as needed to provide additional slack in lead while continuing through the steps to remove the blower from the unit.



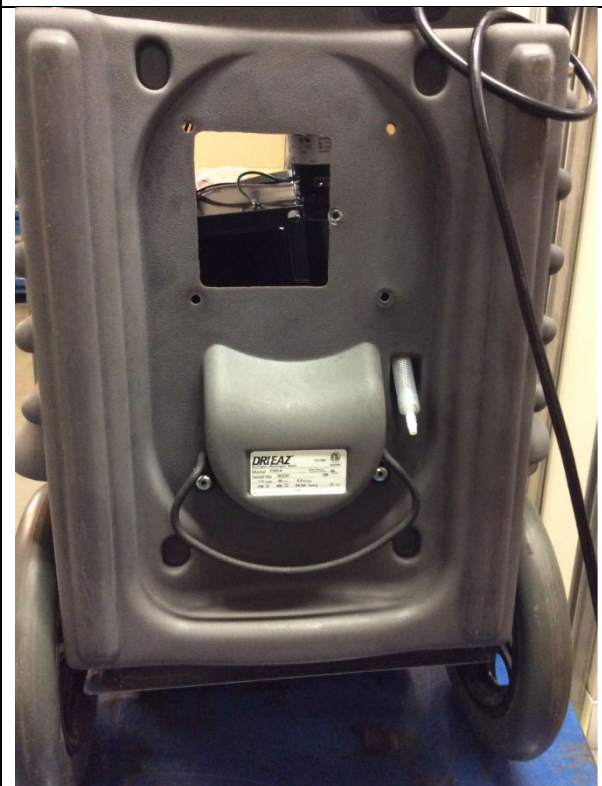
For 08-00257 Blower:

Adjust the blue sensor lead wire coil as needed to provide additional slack:



For 08-00257 Blower:

Raise the plastic housing back section up away from metallic base enough to pull incoming power cord over the top of the blower shield and pull blower under the plastic housing back section. Exercise caution to avoid damaging any of the copper refrigeration tubing.



For 08-00257 Blower:



For 08-00257 Blower:

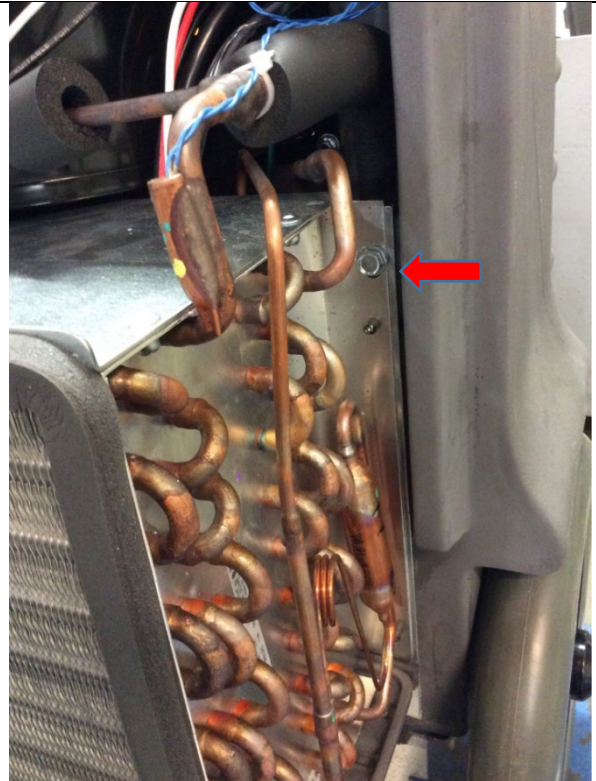


For 08-00257 Blower:

Remove the original blower from the unit. Re-position the plastic housing back section to its original location. Use the ratchet, swivel adapter, and 3/8" socket to tighten the two bolts that secure the refrigeration coil to the plastic housing back section.



For 08-00257 Blower:



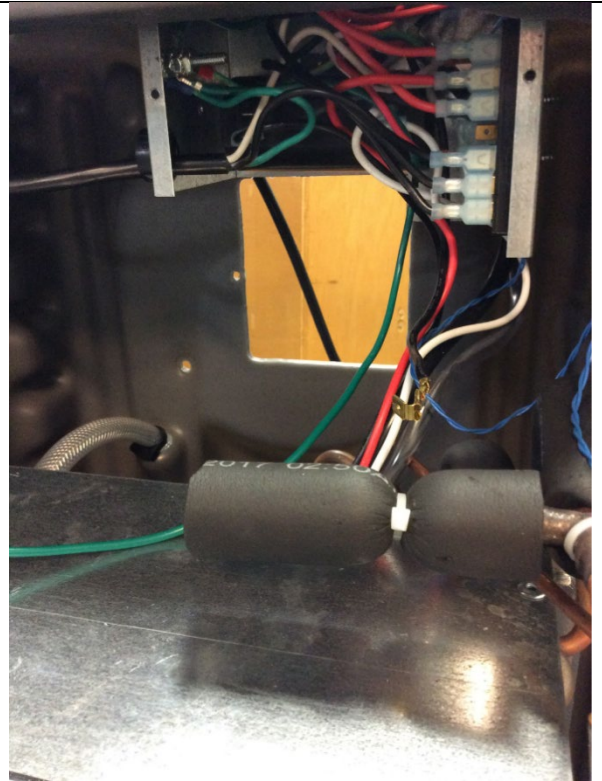
For 08-00257 Blower:

Re-position the unit and use the ratchet, extension, and 3/8" socket to tighten the 4 bolts that secure the plastic housing back section to the metallic base. Return the unit to an upright position to begin installation of the new blower.

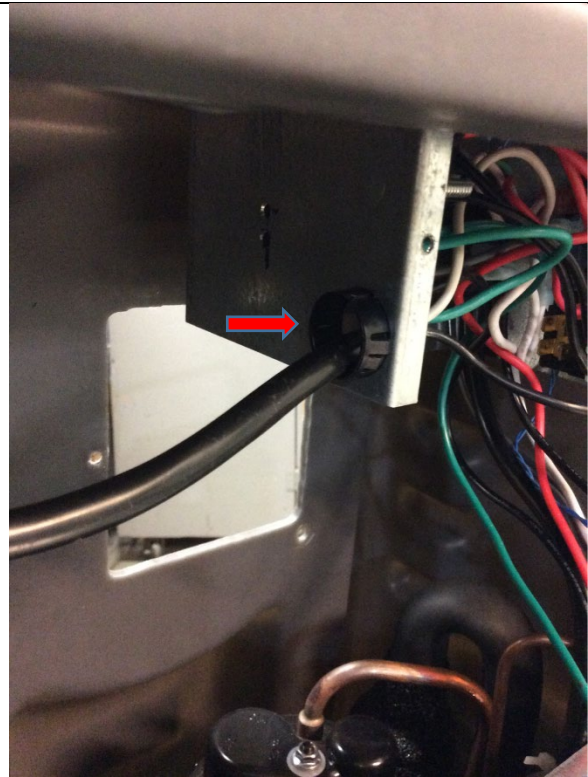


After completing the removal of the original 08-00257 or 08-00257-AP blower, proceed with the following instructions.

With the original blower removed there is additional access for removing the large rivet end pieces and attached washers that may have fallen into the unit when drilling out rivets in the earlier step.



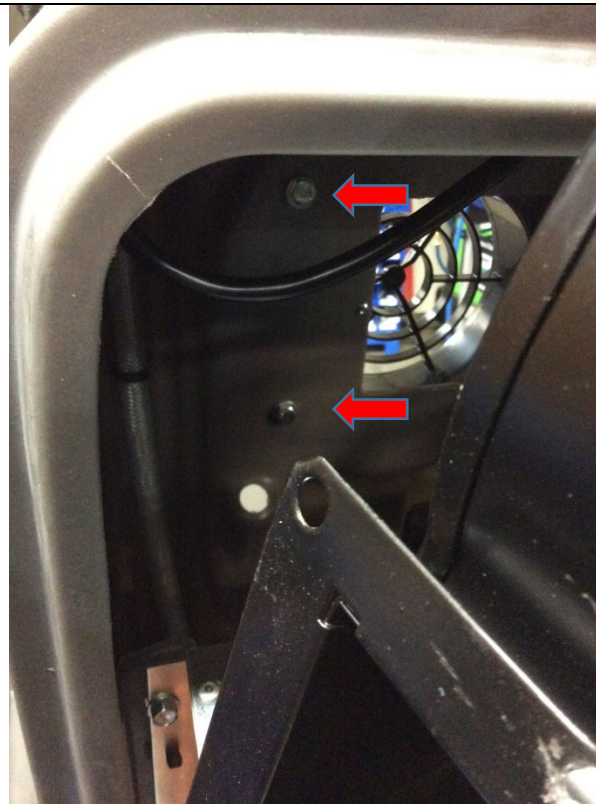
Remove the plastic bushing from the hole in the electrical box that the incoming power cord is passing through. Install new bushing into the electrical box in the orientation shown in the photos. The orientation of the new bushing may be reversed from the orientation of the original bushing depending on which blower was originally in the unit.



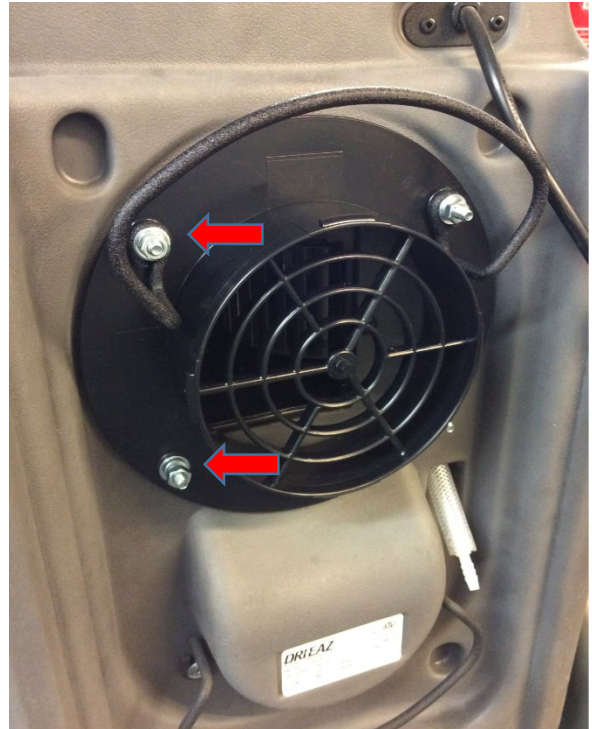
Place the replacement blower on a bench. Using the 1/4"-20 thread cutting screw and a #3 Philips head screwdriver, add threads to the small hole in the blower flange and then remove the screw. Adding threads while the blower is on the bench simplifies the installation of the thread cutting screw in a later step.



With original blower removed, partially attach the hose wrap and plastic duct ring with two of the sets of bolts, washers, and nuts provided with the kit using the ratchet, extension, 3/8" socket, and 7/16" open end wrench.



Position the replacement blower in place and use the remaining two sets of bolts, washers, and nuts to loosely attach the blower at the two blower flange mounting points and to loosely attach the duct ring and hose wrap bracket. The bolts pass through holes in the blower, duct ring, and hose wrap bracket and are secured using the ratchet, extension, 3/8" socket and 7/16" open end wrench. Loosely attaching the blower allows the thread cutting screw to be more easily installed when securing the blower flange to the unit housing.

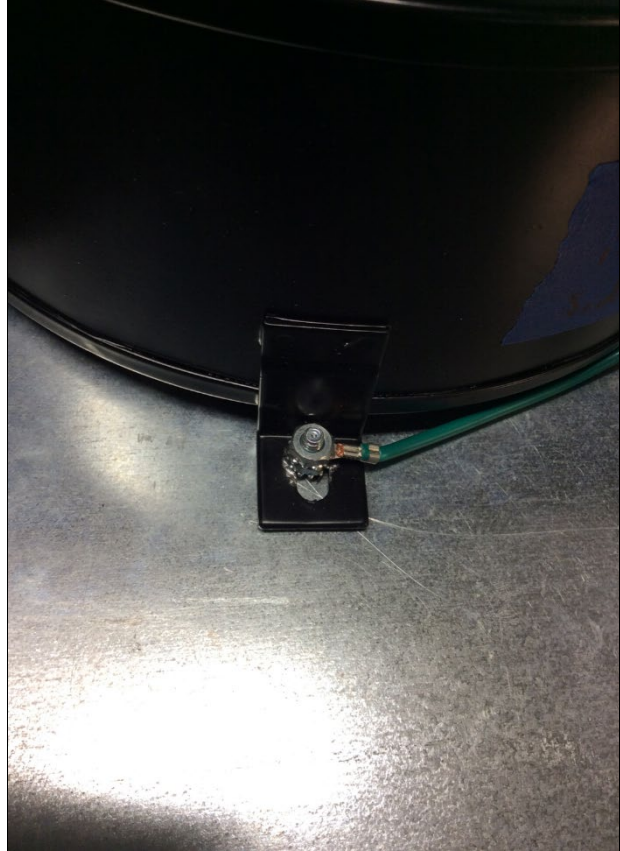


Using a #3 Philips head screwdriver, secure the blower flange to the unit housing with the 1/4-20 thread cutting screw. An alignment punch can be used to help align the hole in the blower flange and hole in the housing. Finish tightening the bolts, washers, and nuts to properly secure the hose wrap bracket and duct ring.

Attachment of thread cutting screw:



Secure the blower bracket and electrical box ground lead to the ground stud on the refrigeration coil using the 3/8" nut driver and the original two #10-24 nuts. The ground lead terminal is sandwiched between the two nuts.

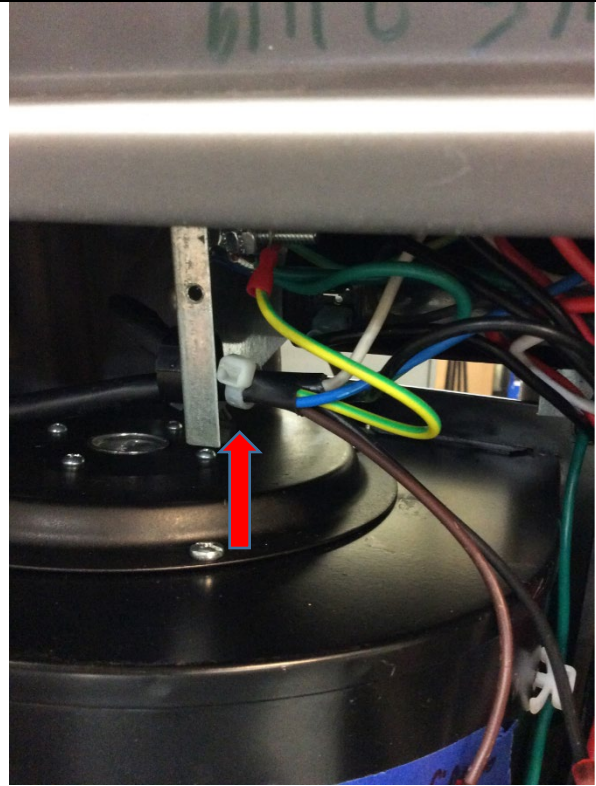


Pass all the replacement blower wires through the nylon bushing in the electrical box. Secure the green/yellow blower wire end to the electrical box ground stud with the additional #10-24 nut provided with the kit using a 3/8" open end wrench. Secure the incoming power cord and blower cord in place using the provided 11" cable tie positioning the cords to ensure a minimum of 1/2" of cord jacketing inside the electrical box.

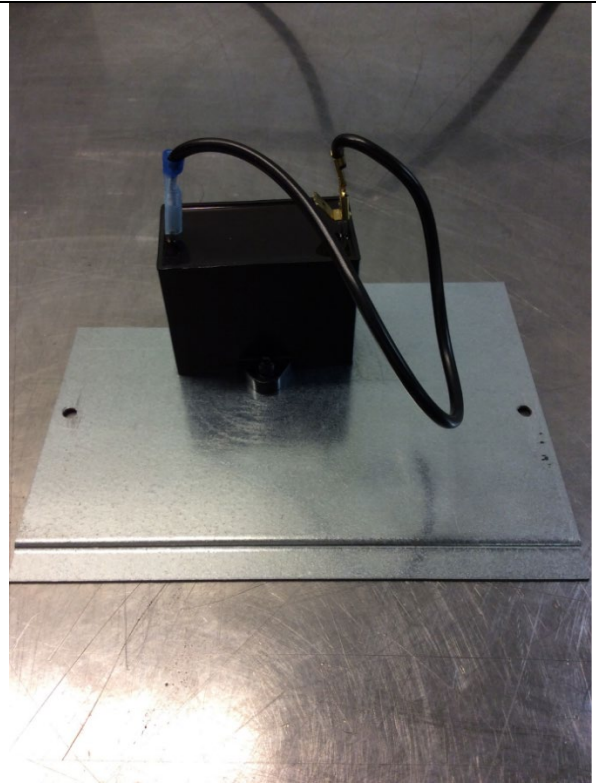
A minimum of 1/2" cord jacketing inside the electrical box:

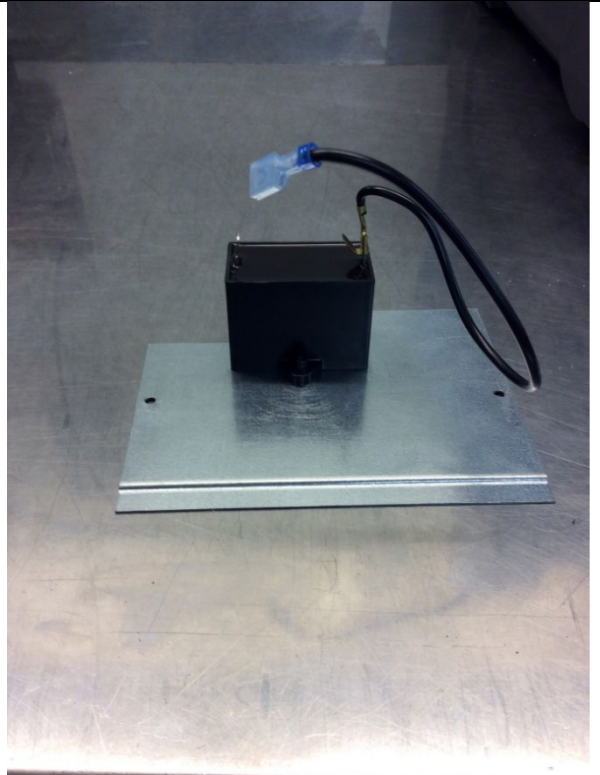


Cords secured with 11" cable tie:



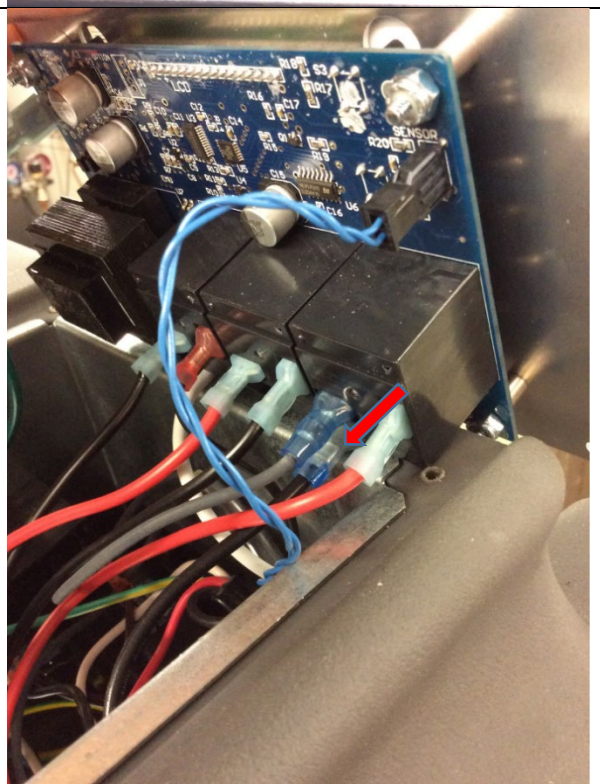
A blower capacitor and additional black lead wire attached to an electrical box lower panel is included with the service kit. Remove the standard terminal end of the black lead wire from the capacitor terminal (the black lead wire is initially attached to the capacitor to protect the capacitor terminals during shipment). Leave the piggyback terminal of the black lead wire attached to the capacitor.



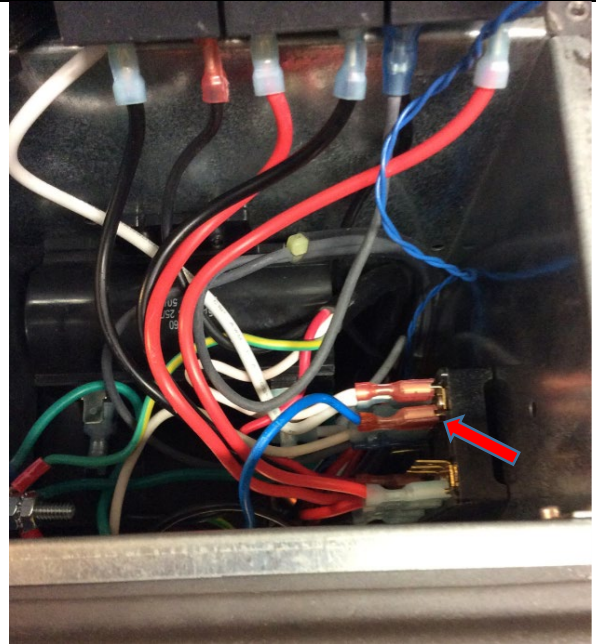


Route the standard terminal of the black wire lead through the electrical box between the terminal block and the back of the electrical box. The piggyback terminal of the black wire lead remains attached to the capacitor. Attach standard terminal of the black wire lead to the PCBA relay. Attach the blower blue wire lead to the terminal block.

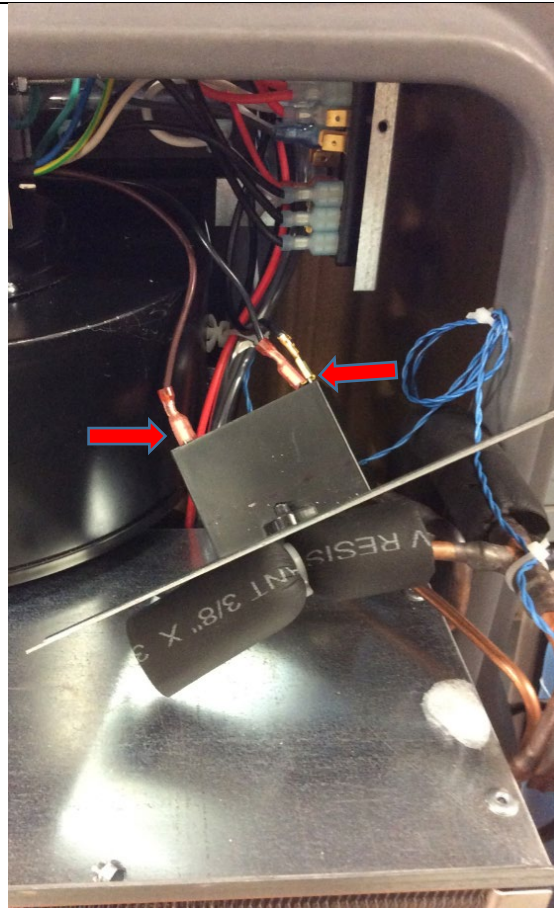
Additional black wire attachment:



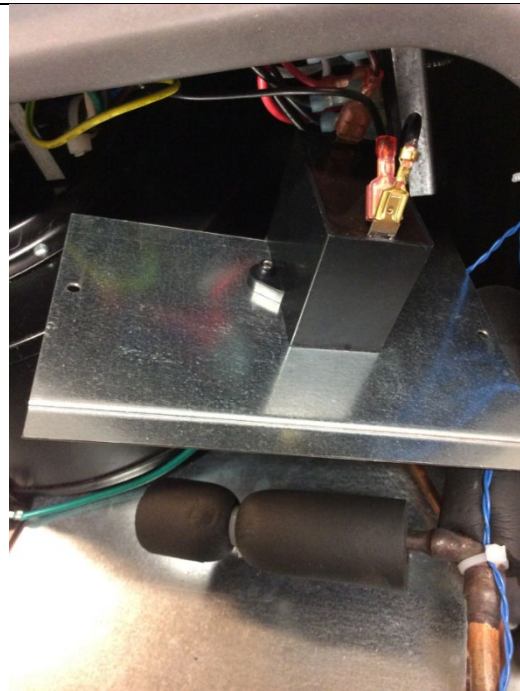
Blower blue wire attachment:


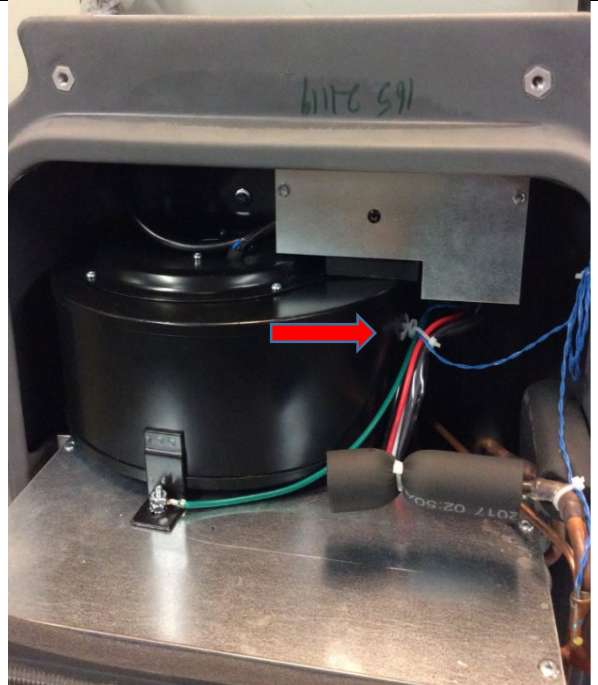


Attach the blower brown wire lead to the capacitor terminal that does not have the black wire lead attached. Attach the blower black wire lead to the piggyback terminal of the black wire lead that is already attached to the capacitor.

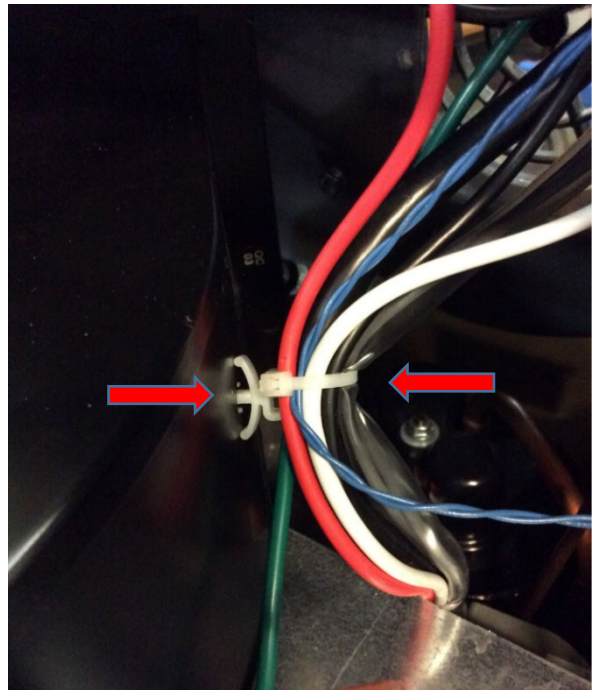


Position the electrical box lower panel in place. It may be necessary to rotate the capacitor as shown and lift the control panel and electrical box up while sliding the lower panel in place. After sliding the electrical box lower panel in place the capacitor can be rotated to its original position and the lower panel can be attached to the electrical box with the two #8-32 X 1/4" screws provided using the 1/4" nut driver.



	
<p>Attach the provided push mount tie to the side of the blower housing and secure the wire bundle to the push mount tie using the 4" cable tie.</p> <p>Cable tie and push mount tie attachment:</p>	

Cable tie and push-mount tie attachment (detail):



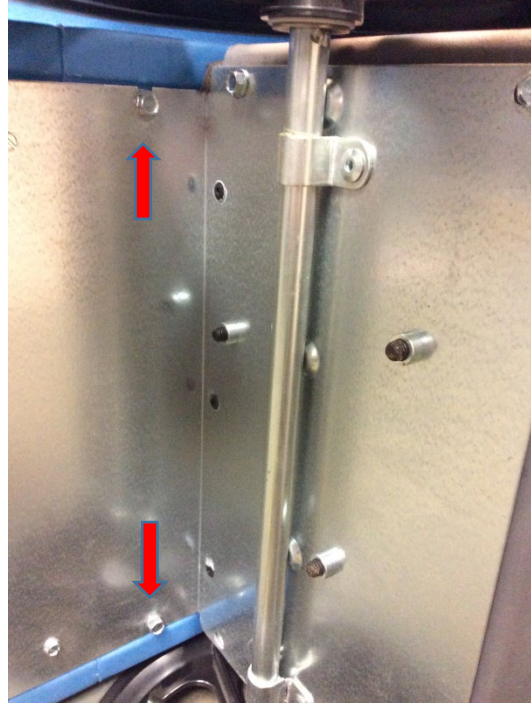
Using a Philips screwdriver, reattach the control panel with the original four screws.



Using the ratchet, extension, and 3/8" socket, re-attach the plastic housing front section with the original six bolts.

Longest bolts are used at the top of the cover:

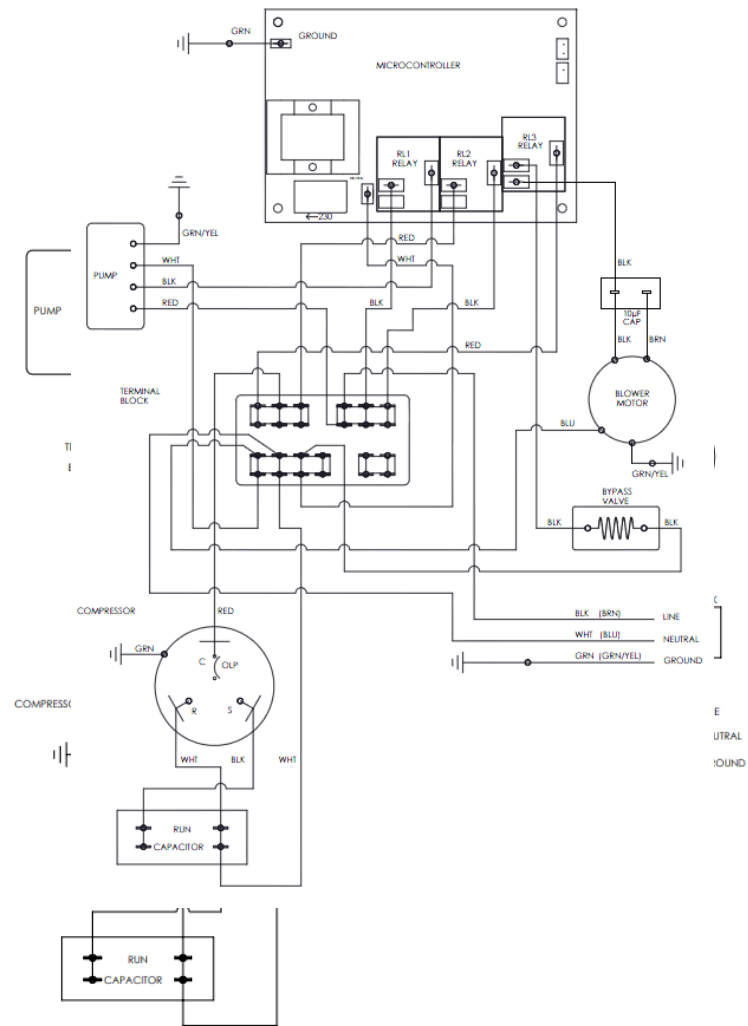




IMPORTANT: Test the unit for proper operation before returning the unit to service.

Questions? Contact Legend Brands Service at 800-932-3030.

DrizAir 1200 Wiring Diagram with 08-00257-AP Blower Installed



DrizAir 1200 Wiring Diagram with 08-00257 Blower Installed

