

PC45 AIR PUMP REPLACEMENT KIT- FOR REPLACING A DENVER-GARDNER PUMP WITH A HIBLOW PUMP.



Air pump # 3-20-02679 (Sold separately)

Please read the entire instructions prior to beginning the project.

Kit Contents #1-00-724209:

- (1) Air Pump Mounting Bracket
- (1) Paper Template for Mounting Hole Location
(back page of instructions)
- (1) Light Blue Wire Extension
- (1) Yellow Wire Extension
- (2) Male Spade Terminals
- (2) Black 1/8" Pop-Rivet
- (2) #10 X 1/2" Tek Screw
- (1) 3" X 1/4" diameter Silicone Tubing
- (8) Cable Tie
- (1) 12" X 9mm diameter Silicone Tubing

Tools and Supplies Needed:

- Air Pump #3-20-03769
- Cordless Drill / Screw Gun
- 1/8" Sheet Metal Drill Bit
- 5/16" Driver Bit (Magnetic is helpful)
- 3" or 12" Extension Bit
- Wire Cutters
- Wire Crimping Tool
- 3/32" Hex Key Wrench
- Pop-Rivet Tool
- Center Punch or Awl

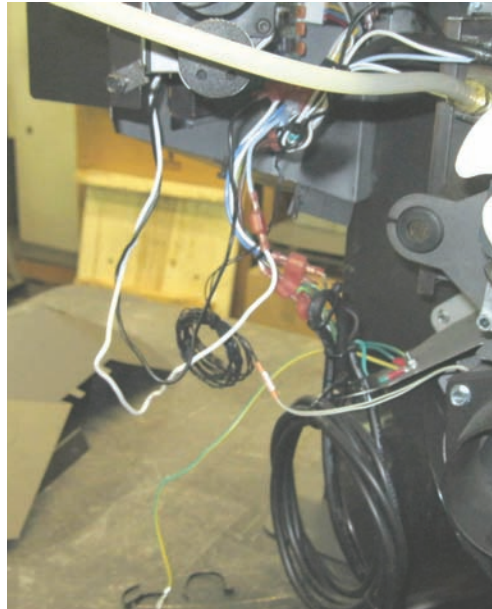
Step 1. Disconnect electrical power to the appliance. Remove the rear shields. You may want to disconnect the exhaust and outside air connection, if installed, to allow rotation of the stove for easy access to the rear cabinet.



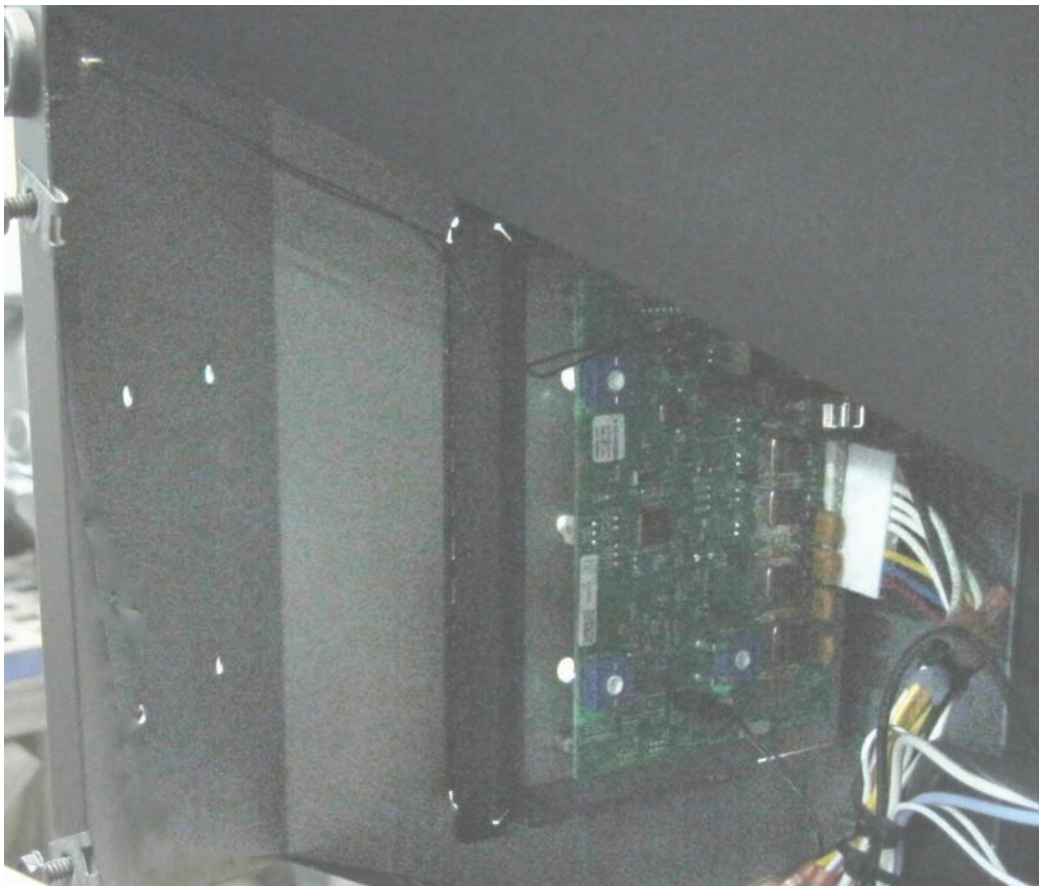
Step 2. Remove or cut the 1/4" silicone tubing from the existing air pump. At the igniter end, cut the tubing even with the end of the igniter fitting, leaving a short piece of 1/4" tubing on the fitting.



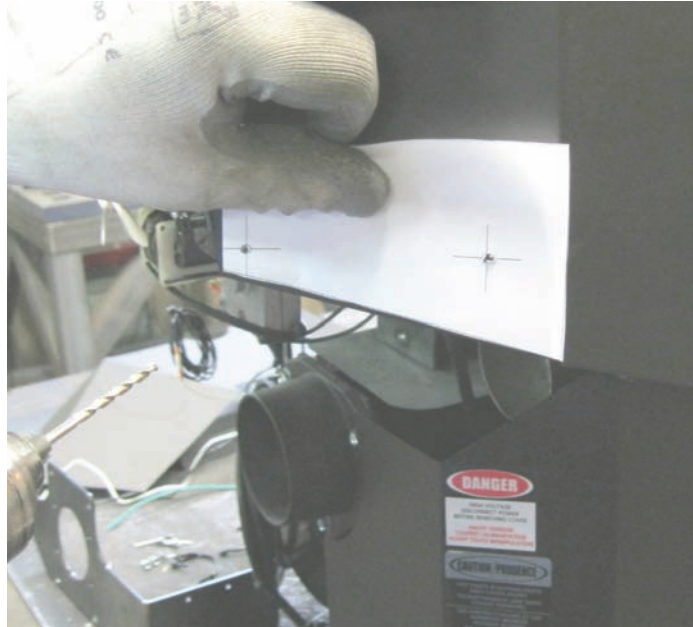
Step 3. Carefully cut the wire ties from the bundle of wires. DO NOT CUT INTO THE WIRES. Disconnect the power wires from the harness to the air pump. Follow the ground wire from the pump to the mounting point on the feeder heat shield. Cut and discard the ground wire, it will not be needed.



Step 4. Using a 3/32 Hex Key Wrench, remove the existing pump mounting screws. Begin by removing the two bottom screws, then support the pump as you remove the top two screws. You will not be re-using these screws. This picture shows what you should be seeing with the pump removed and disconnected.



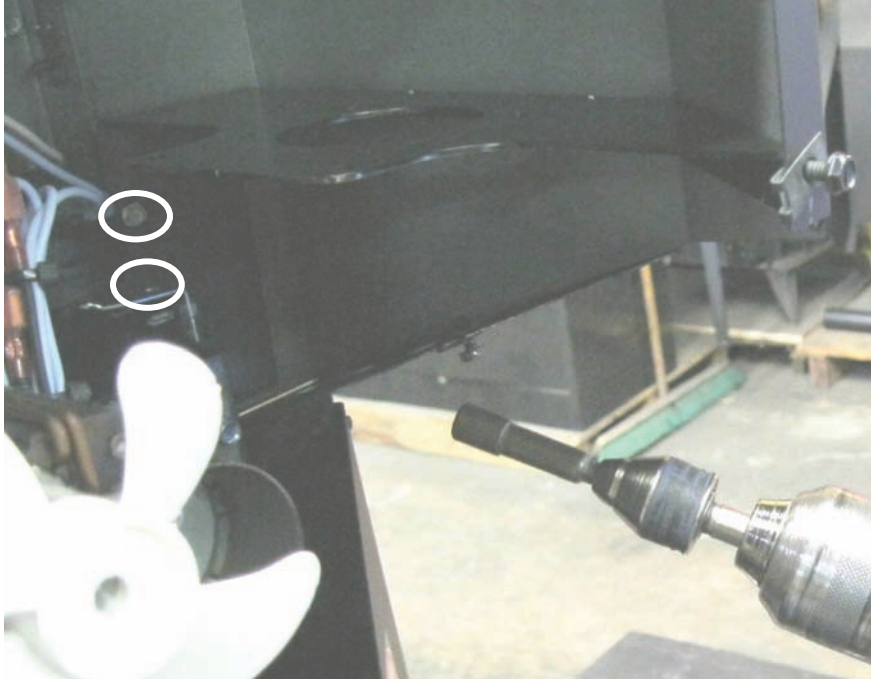
Step 5. The new pump bracket will be mounted on the left side of the stove (opposite of where it was). Hold the paper template up to the angled portion of the hopper in the left rear corner. The bottom of the template will be aligned with the angled bottom of the hopper section, and the hole marks will be level. Mark the holes using a center punch or an awl. Remove the template and drill the holes with a 1/8" drill bit. Be careful of any burrs which may have formed around the holes. See last page.



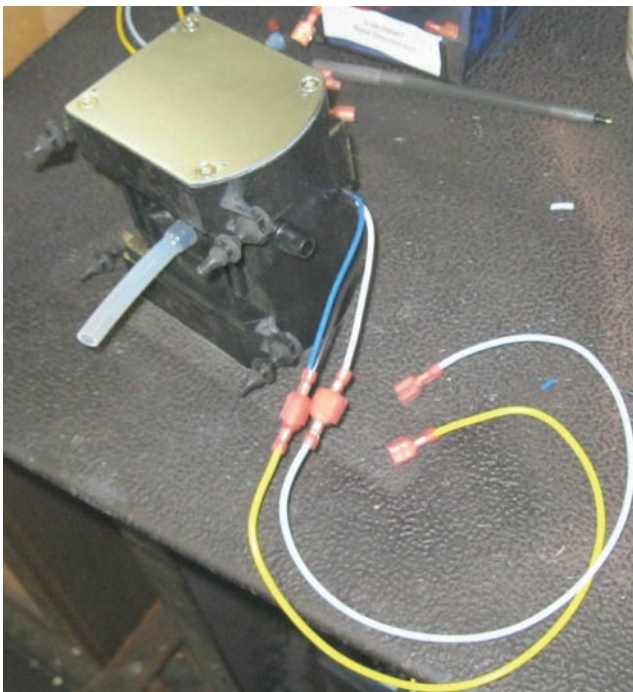
Step 6. Be sure the large round hole in the mounting bracket is open. If it is not, simply break it away. Hold the mounting bracket in place inside the rear cabinet. Proper positioning is with the pointed end of the bracket toward the back and the long bent tab (pointing downward) going in toward the front of the stove. Align the two holes in the bracket with the two holes you just drilled, and secure using two black pop-rivets.



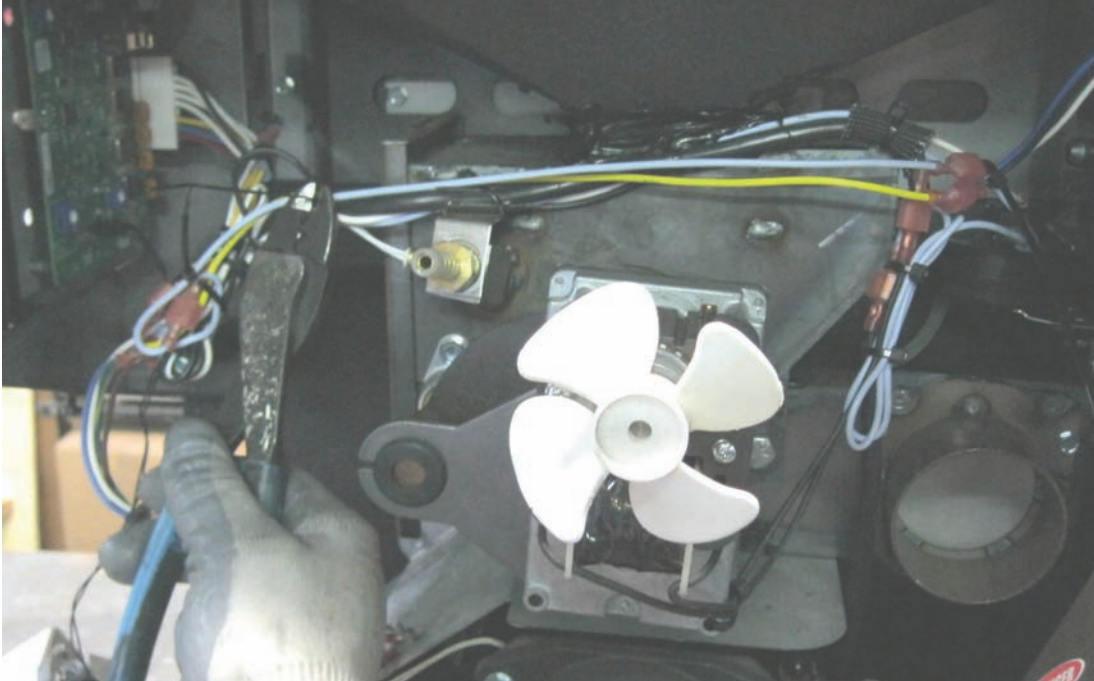
Step 7. Using a minimum 3 inch extension, install the 5/16" driver-bit into your drill or screw-gun. To level the mounting bracket, align the bottom of the bent tab on the bracket with the bottom of the hopper sheet metal. Using the two holes in the mounting bracket tab, install two self drilling Tek screws into the hopper sheet metal to secure the front of the mounting bracket.



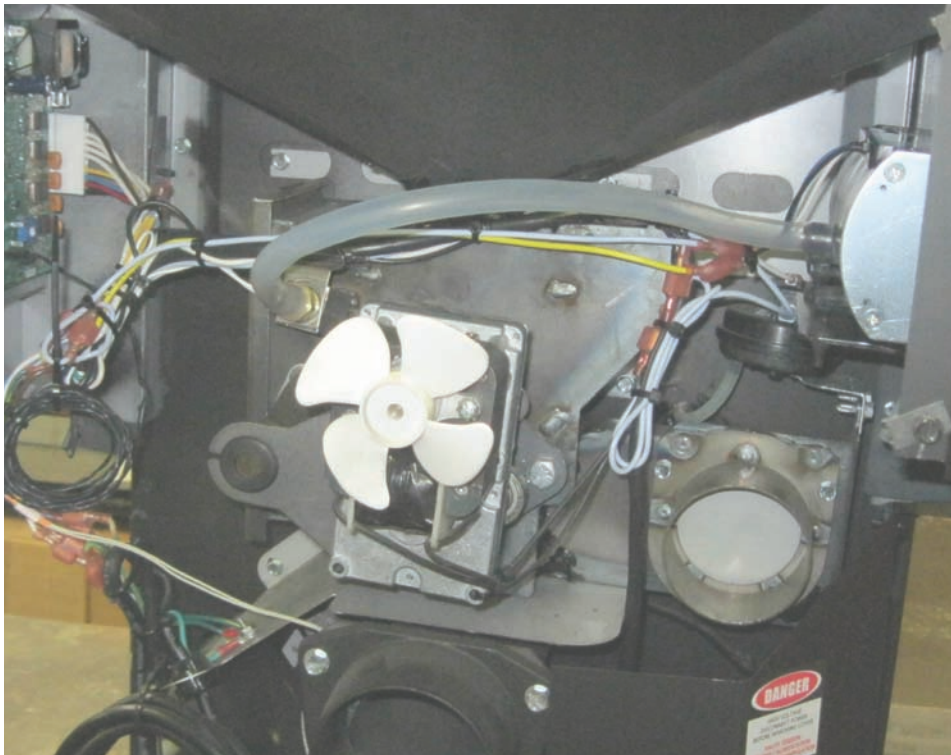
Step 8. Prepare the pump for installation; Install the 3" piece of 1/4" tubing onto the intake of the pump as shown. This short piece acts as a muffler to reduce air-flow noise. Crimp a male terminal onto the white wire from the pump. Twist the black and dark blue wires from the pump and crimp them together into a male spade terminal. Attach the light blue wire extension to the white pump wire and the yellow wire extension to the black/dark blue wires as shown below. Position the pump on the bracket as shown below right. Guide the short tubing down through the round hole in the mounting bracket and install the pump by aligning the rubber mounts with the holes in the bracket and pulling the tips of the rubber mounts down through the holes.



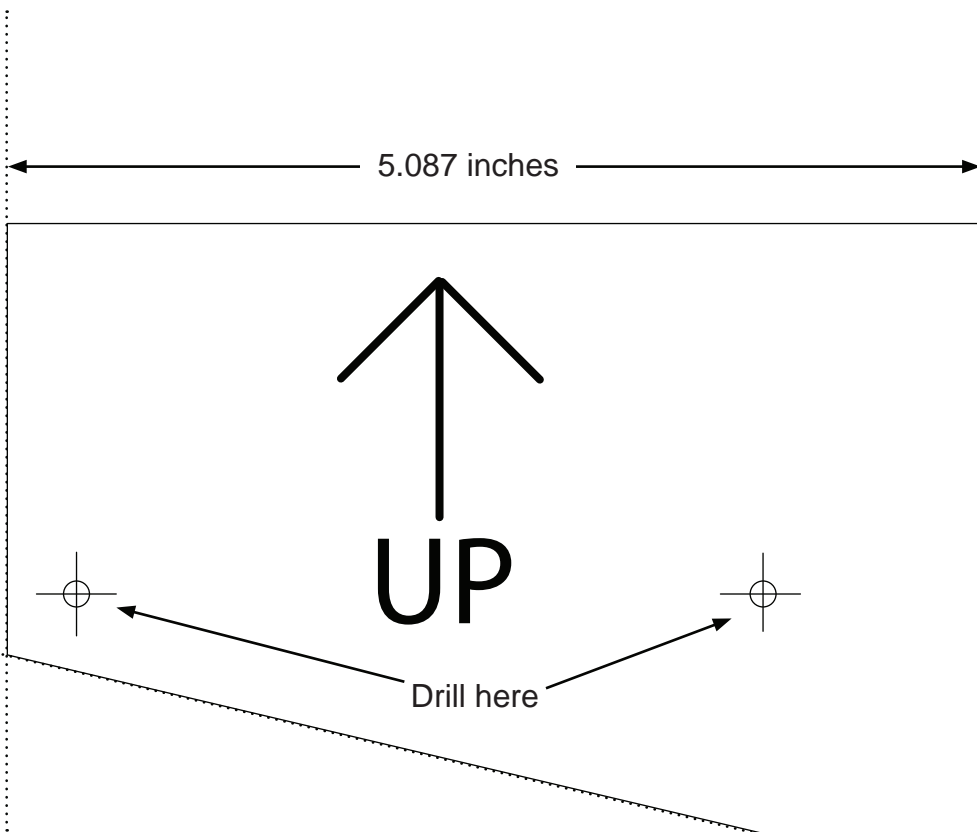
Step 9. Attach the light blue and the yellow wires from the pump to their color corresponding wires from the harness. Neatly tie all of the wiring away from any moving parts and rub points. Stay clear of the pusher arm and the heat from the igniter element.



Step 10. Attach the 9mm tubing from the discharge of the pump to the igniter. This tubing will slip over the 1/4 inch tubing that was left on the igniter port. Be sure the tubing is also routed away from any hot or moving parts.



Step 11. Test operation; with the igniter switch in the auto position, and the Feed Adjuster on #2 or #3, turn the mode selector to STOVE TEMP and the temperature dial to #7. Listen for the air pump to run. If you do not hear it running, turn to "OFF" immediately, to protect the igniter from damage.



Template; Cut or fold on the dotted lines.
Edges or folds will fit the bends of the hopper
sheet metal.

