

# Technical Data Sheet

## Clydesdale Model 8491 Blower Replacement Assembly 94-57910

**Publish Date: 01/20/2010**


### **ASSEMBLY CONTENTS:**

- (1) Right Fan Blower with Mounting Bracket
- (1) Left Fan Blower with Mounting Bracket
- (6) Silicone Grommet with Bushing (installed)
- (1) Variable Speed Motor Control w/Bracket
- (1) Power Cord, 8'

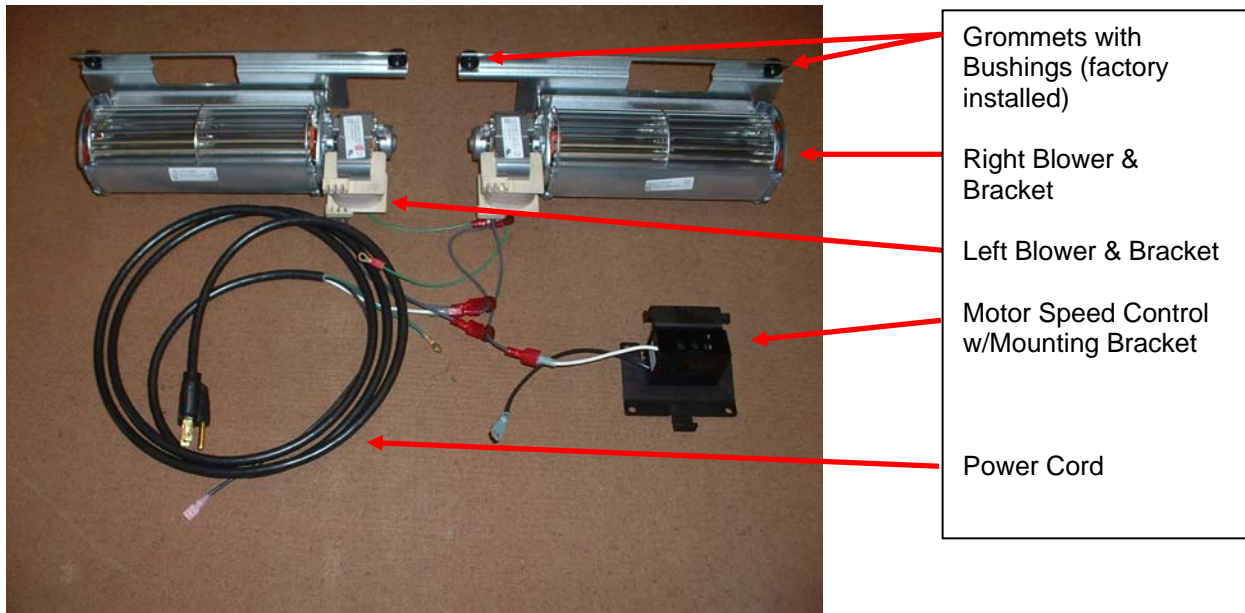
### **TOOLS REQUIRED:**


- Phillips Screwdriver
- ½" Wrench, or Socket & Ratchet
- 5/32" Hex Wrench

### **READ THESE INSTRUCTIONS ENTIRELY BEFORE INSTALLING / SERVICING THE BLOWER.**


 **IMPORTANT NOTE:** Use this blower only with the products intended and which have markings to indicate such use. The blower will force air under the insert and up through the convection spaces that are formed between the sides and back of the insert and the sheet metal shroud (already installed). The openings at the top front of the insert direct the heated air back out into the room.

**ELECTRICAL GROUNDING INSTRUCTIONS:** This blower is equipped with a three-pronged (grounding) plug for your protection against shock hazard. Plug into a properly grounded three-prong receptacle only. Do not cut or remove the grounding prong from the plug.

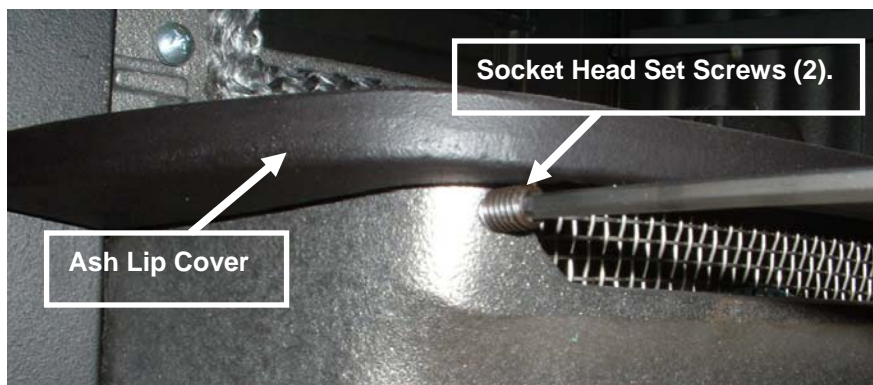


 The replacement blower assembly wiring connections are factory assembled with the exception of the ground and snap disc connections. You must make these connections at the time of installation.

## **REMOVAL & INSTALLATION PROCEDURE:**

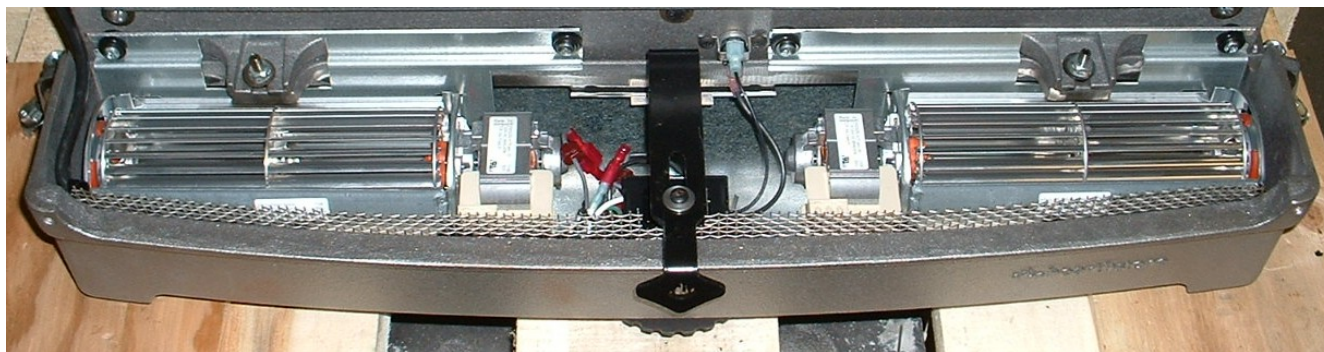
-  **Disconnect the BLOWER from any source of power when removing, or servicing it in any way. Only work on a cold stove.**

1. The blower assembly is factory installed in the ash lip assembly. To replace the blower assembly it is necessary to remove the ash lip cover, façade, and the ash lip assembly. Locate the hex socket head set screws on the front left and right side of the ash lip housing. Loosen, but **do not remove** the screws, then lift the front edge of the ash lip cover up, and slide it out and away from the insert.



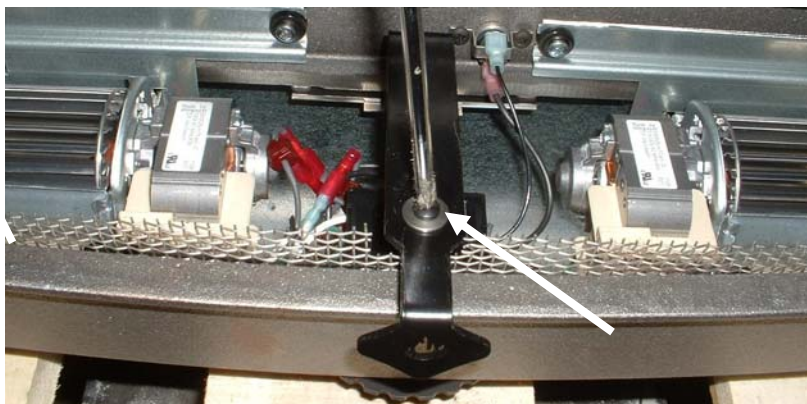
**Photo 1 – Ash Lip Cover Removal**

2. Remove the top grill and façade to provide access to the ash lip assembly mounting flanges and the blower mounting screws.



**Photo 2 – Cover and Façade Removed**

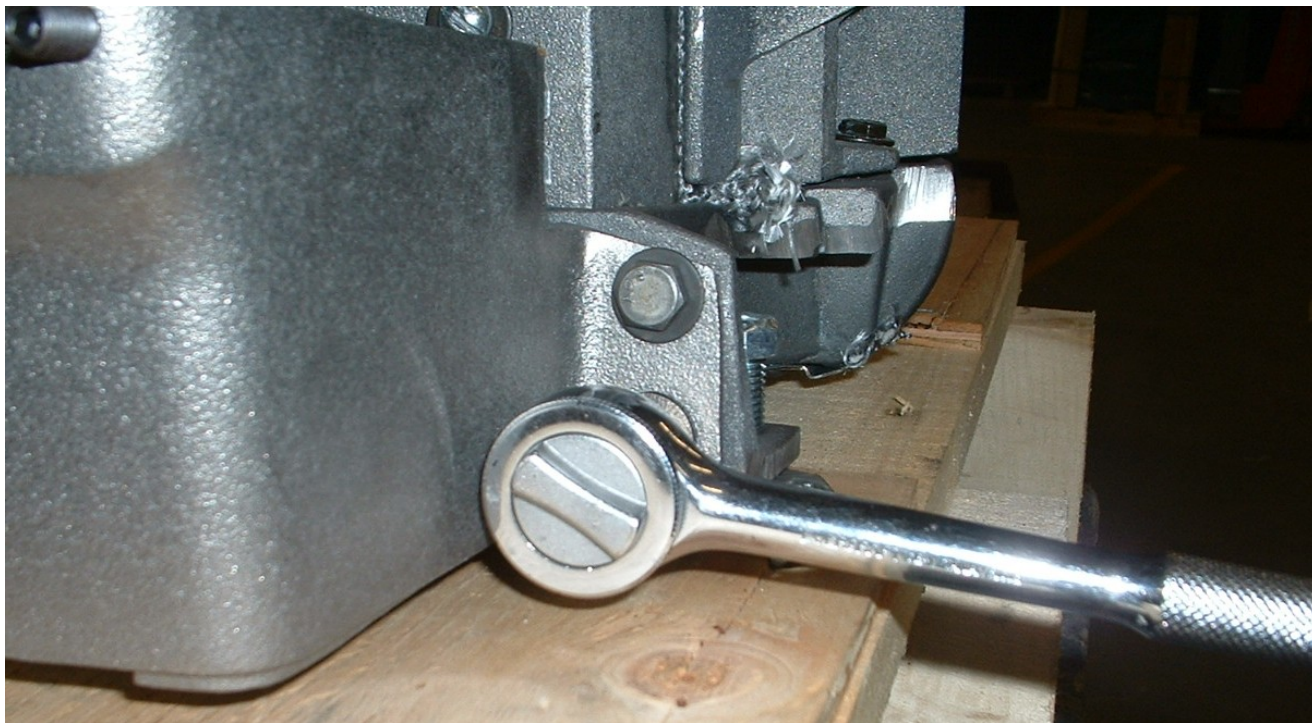
3. Remove screw and step bushing securing the primary air control to the motor control bracket.



**Photo 3 – Air Control Mounting Detail**

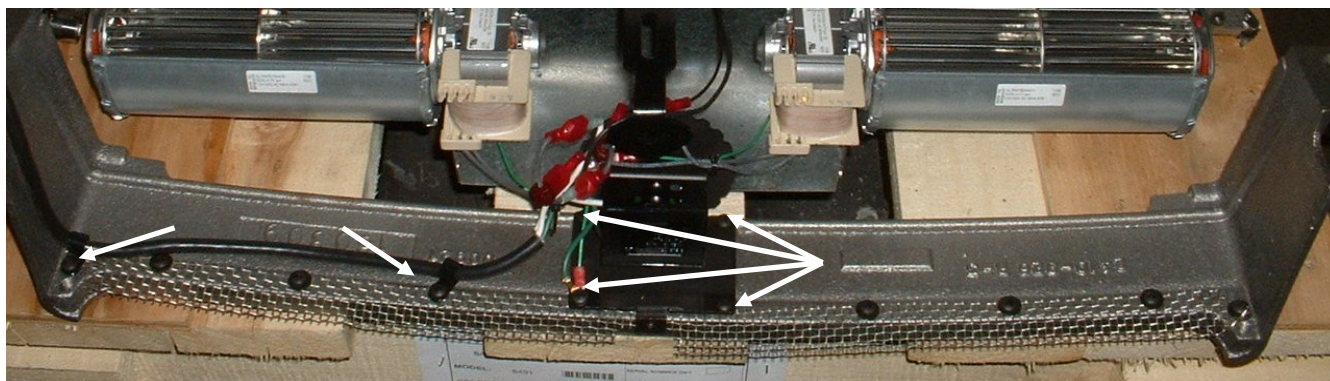


4. Use a 1/2" socket, or wrench and remove the 4 bolts and washers securing the ash lip assembly to the body of the insert. There is no need to disconnect any wires at this time.



**Photo 4 – Ash Lip Assembly Fastener Detail**

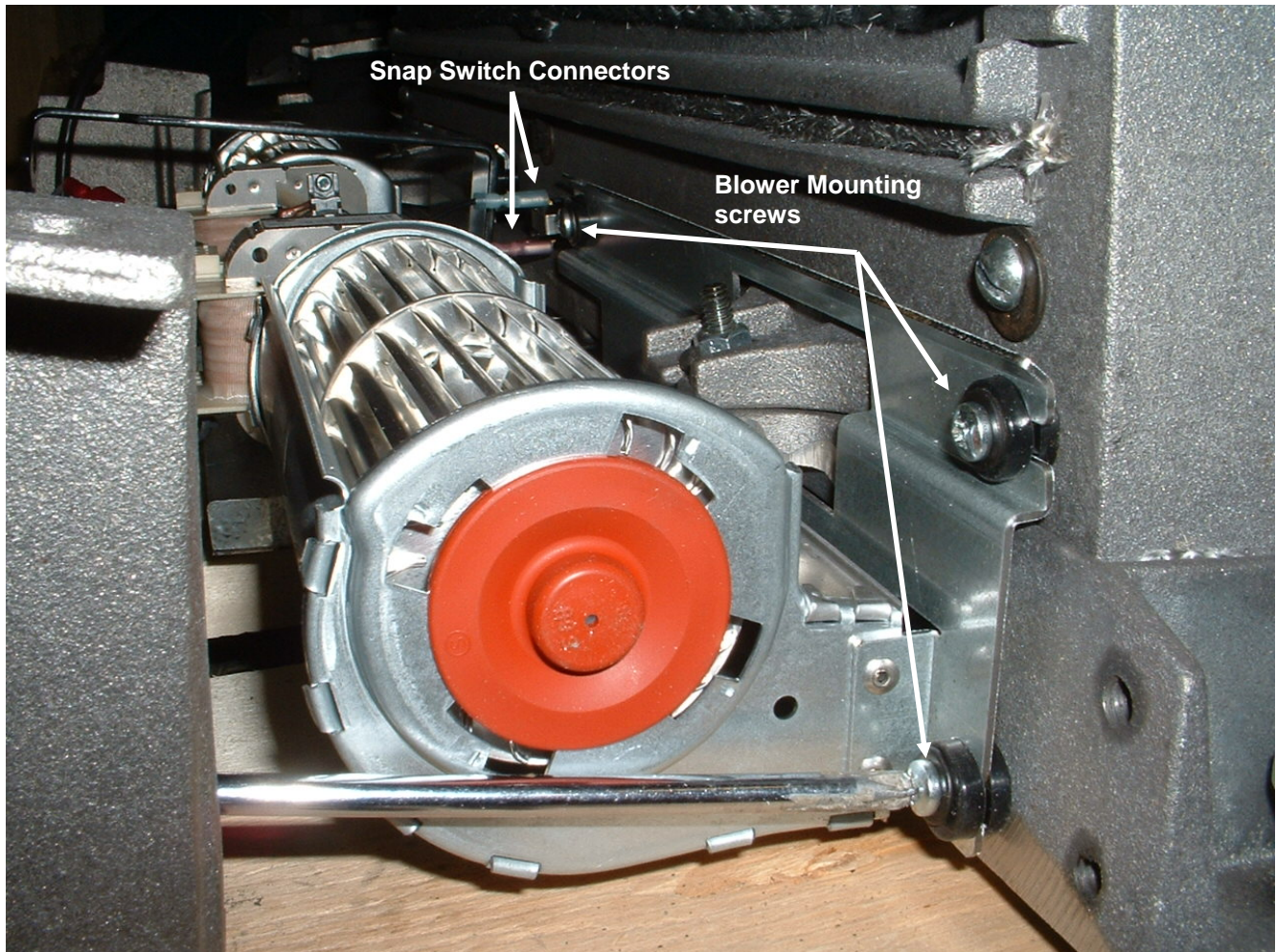
5. Position the ash lip assembly as shown below. Use a phillips head screwdriver to remove the 2 screws securing the wire loops holding the power cord. Remove the 4 screws securing the speed control bracket and ground wires to the front assembly. Remove the notched wheel from the speed control, and retain. Retain the screws and loops for installation of the new blower assembly.



**Photo 5 – Wire Loop and Bracket Mounting Detail**



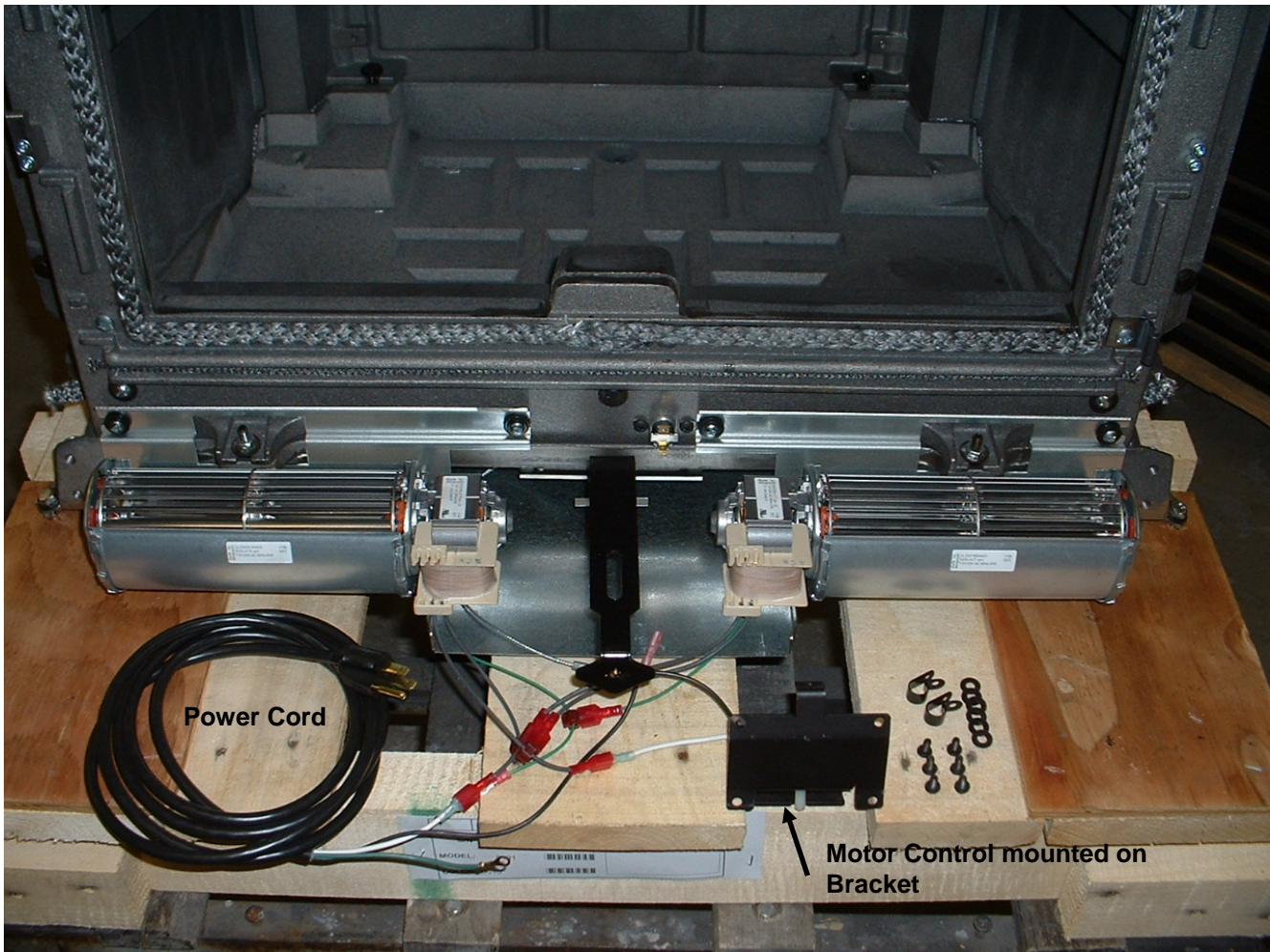
6. Disconnect the wires from the snap switch. Remove the 3 screws securing each blower to the front of the unit. Retain the screws for installation of the new blower assembly. Remove old blower assembly, including speed control, and all associated wiring from the unit.



**Photo 6 – Snap Switch & Blower Mounting Detail**

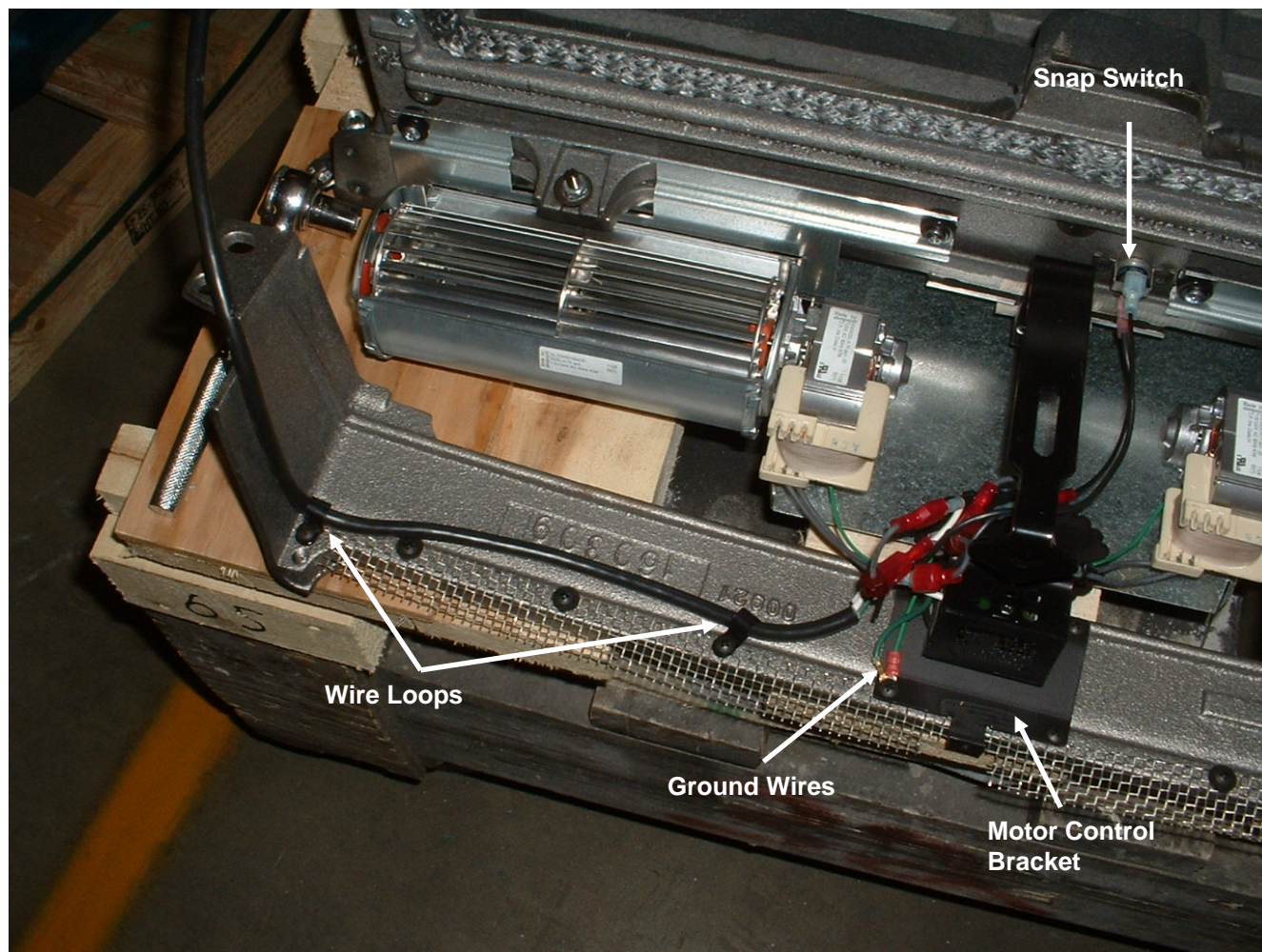


7. Carefully remove the new blower assembly from the packaging. New blowers will come with mounting bushings installed. Kit may, or may not include new mounting screws – if not, reuse existing mounting screws removed earlier. Ensure all components are present, and not damaged or bent. Do not install damaged components. Do not disconnect any wires. Position all the components in front of the unit – attach the left and right blowers to the unit using the 6 screws removed earlier.



**Photo 7 –Blower Assembly Component Mounting Detail**

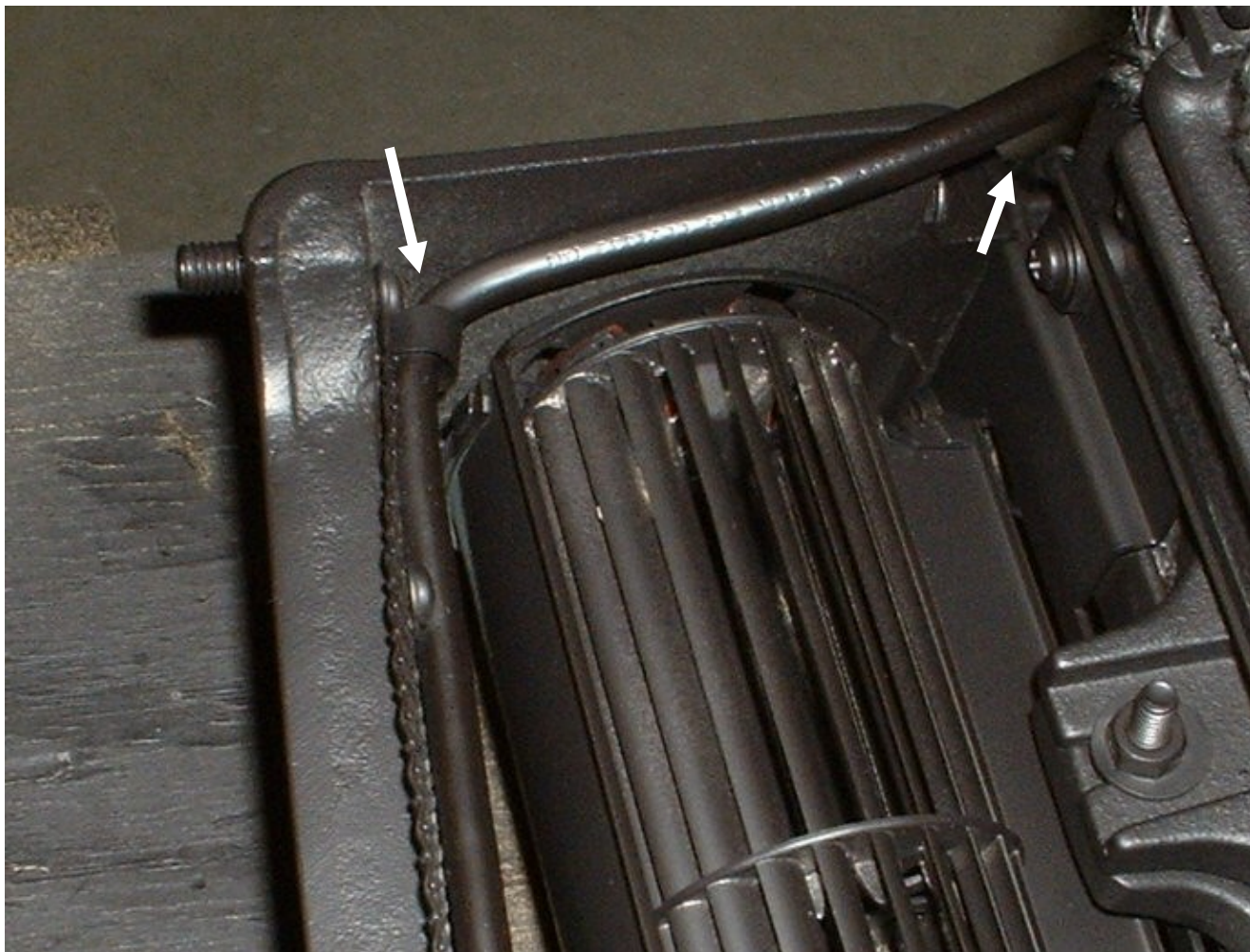
8. Position the ash lip assembly in front of the unit as shown, connect the wires to the snap switch (hot or black from power cord, and from speed control). Secure the ground wires and new motor control bracket with speed control to the ash lip assembly. Install the notched wheel onto the speed control. Install the wire loops securing the power cord back in their original positions – ensure one loop is secured by the screw nearest the corner to prevent the cord from contacting the blower housing on that side.



**Photo 8 – Component Mounting Detail**



9. Reverse steps 1 through 4 to reassemble the ash lip housing, ash lip cover, and façade. Ensure the cord is not touching the blower housing and is routed through the space above the mounting flange as shown below. Ensure the cord is not pinched in any way. Ensure the air control moves freely. Plug power cord into a grounded, 120v, 60-cycle 3-prong receptacle. See your owner's manual for blower operation instructions.



**Photo 9 – Correctly Routed Cord Detail**