

BK-GAS BLOWER KIT

**Models: SAPPHIRE, SAPPHIRE-D, TOPAZ, CASTILE GAS, GARNET,
 TIARA PETITE, DV400, DV450, DV750**
Installation Instructions

CAUTION! Risk of Cuts, Abrasions or Flying Debris.
 Wear protective gloves and safety glasses during installation. Sheet metal edges are sharp.

TABLE OF CONTENTS

Kit Contents	1
SAPPHIRE	2
TOPAZ (Serial No. 874593 and lower)	2
TOPAZ (Serial No. 874594 and higher)	4
CASTILE GAS	4
SAPPHIRE-D	4
SAPPHIRE-MBK	4
GARNET	5
TIARA PETITE	5
DV400	6
DV450	6
DV750	8

NOTE: Open and inspect contents of BK-GAS. The contents of the kit are listed below. If any of the parts are missing or damaged, please contact your dealer for replacements.

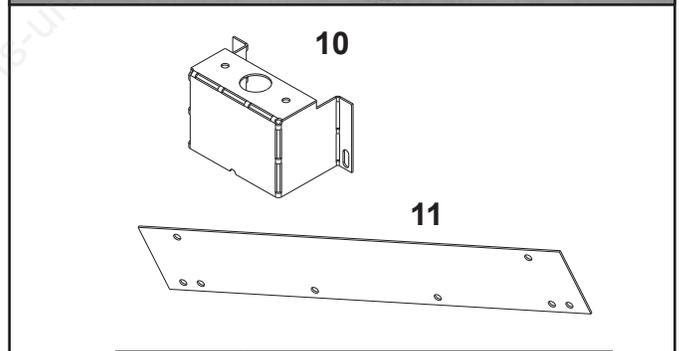
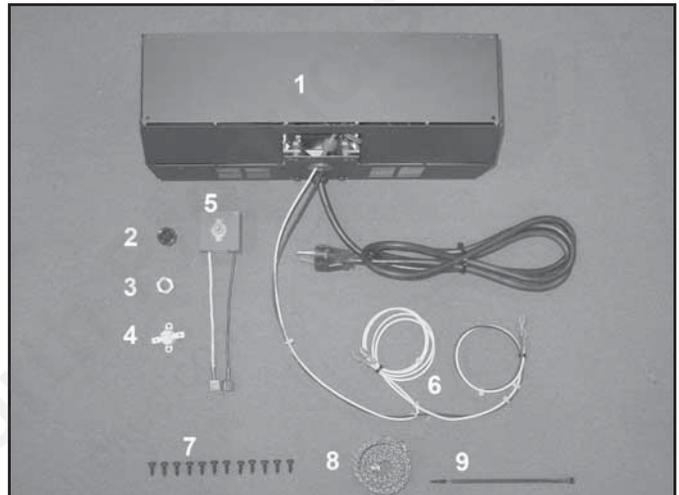
NOTE: Not all components are used for all installations.

Blower Notes for All Models

NOTE: The blower will not run until the appliance has heated up enough to activate the snap disc. This can take up to 15 minutes depending on the temperature of the room. Likewise, the blower will not turn off until the appliance has cooled off enough to turn off the snap disc.

- Turning the control knob to the left (counterclockwise) until you hear an audible click will turn the blower "OFF".
- Turning the control knob to the right (clockwise) until you hear an audible click will turn the blower "ON".
- Turning the control knob further to the right will reduce the speed of the blower.

Kit Contents for All Models



Number	Description
1	Blower Mounted in Housing
2	Speed Control Knob
3	Pal Nut
4	Ceramic Snap Disc
5	Speed Control (Rheostat)
6	Wire Harness (attached to blower)
7	12 Screws
8	12 inch Tape Gasket
9	1 Zip Tie
10	Snap Disc Bracket
11	Bracket #1

Kit Contents

SAPPHIRE (All Serial Numbers)

For SAPPHIRE-MBK or SAPPHIRE-D, see page 4

TOPAZ (Serial Numbers 874593 & Lower)

Kit Contents Required:

- Blower mounted in housing with wiring harness
- Bracket #1
- Snap disc bracket
- Speed control (rheostat)
- Speed control knob
- Snap disc
- Screws
- 1 zip-tie.

Tools Required:

- #2 Phillips head screwdriver
- 11/16" wrench

Installation

1. Turn off the gas supply (if connected), and remove the valve cover.
2. Install mounting bracket #1 to the blower housing using four screws. See Figure 1.
3. Mount the blower to the rear of the appliance using two screws, as shown in Figures 2 and 3.
4. Attached to the underside of the appliance is a bracket which supports the front of the blower. Bend this bracket down and secure with two screws. See Figure 4.
5. Route the white wires through the snap disc bracket and attach the wire terminals to the snap disc. Pull flush in the bracket. See Figure 5.
6. Attach the snap disc bracket to the underside of the appliance with two screws. Push the bracket up in the slots until the snap disc contacts the bottom of the fire-box. See Figure 5.



Figure 2



Figure 3

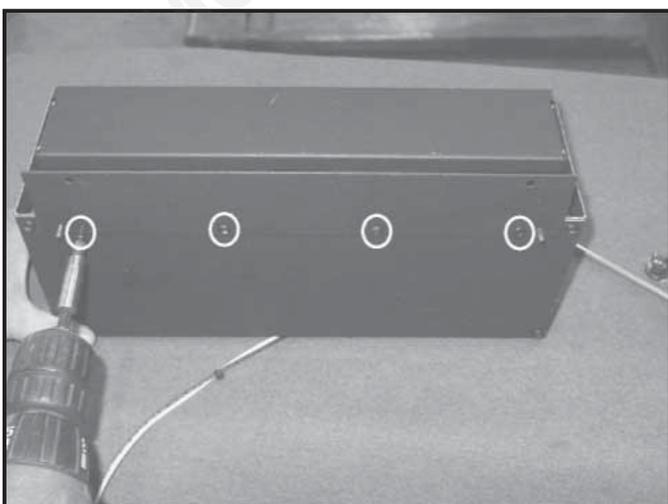


Figure 1

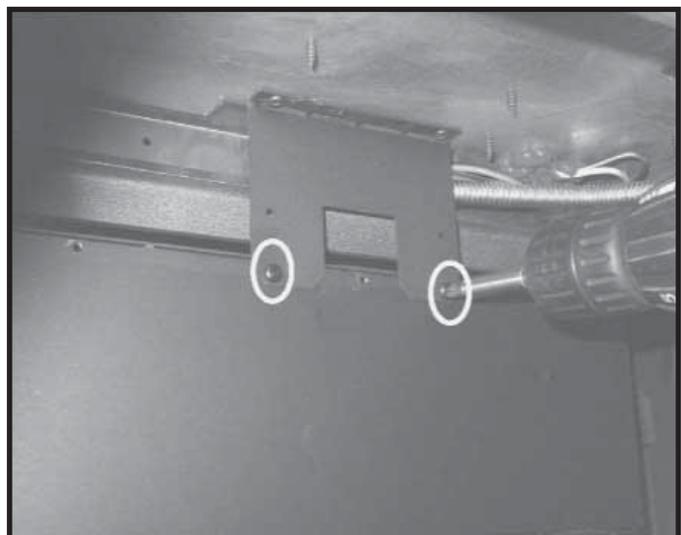


Figure 4



Figure 5

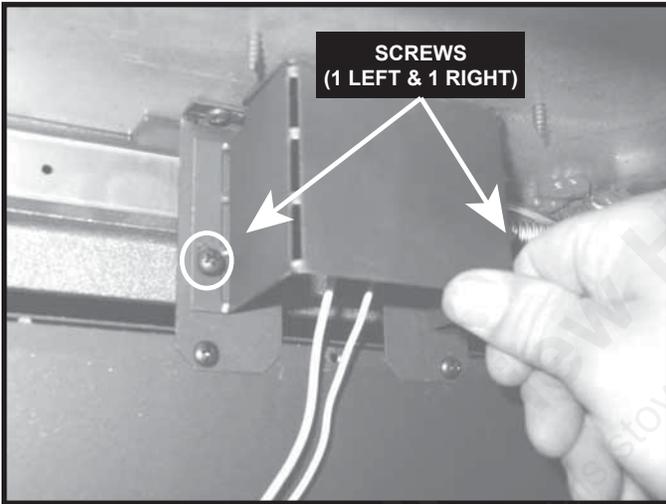


Figure 6

Installation

Sapphire: Remove the speed control housing from the back of the appliance and install the speed control. Using an 11/16" wrench, tighten the pal nut. Install the speed control knob. Re-install the speed control housing and the valve cover. See Figure 7.

Topaz: Attach the speed control to the control panel on the rear of the appliance. Using an 11/16" wrench, tighten the pal nut until snug. Install the speed control knob. Re-install the valve cover. See Figure 8.

- Gather the loose wires and wrap together with the wire tie.
- Connect power to the fan kit.



Figure 7



Figure 8

TOPAZ (Serial No. 874594 & Higher)
CASTILE GAS, SAPPHIRE-D, SAPPHIRE-MBK

Kit Contents Required:

- Blower mounted in housing with wiring harness
- Speed control (rheostat)
- Speed control knob
- Snap disc
- Screws
- 1 zip-tie

Stove Component Pack Contents Required:

- Snap disc bracket
- 10-32 nut

Tools Required:

- #2 Phillips head bit
- 11/16" wrench
- 3/8" wrench

Installation

1. Turn off the gas supply, (if connected,) and remove the rear shield.
2. Place the blower under the appliance. Attach the blower from the front with four screws to the blower bracket. See Figure 9.
3. Install the snap disc in the bracket. Attach the bracket to the firebox with a 5/16" wrench. See Figure 10.
4. Connect the electrical connector to the snap disc. Figure 11.
5. Install the speed control to the switch panel. See Figure 12.
6. Attach the knob to the speed control.
7. Cut out the speed control (rheostat) cover on the rear shield. See Figure 13.
8. Re-install the rear shield.
9. Connect the blower to the power supply.

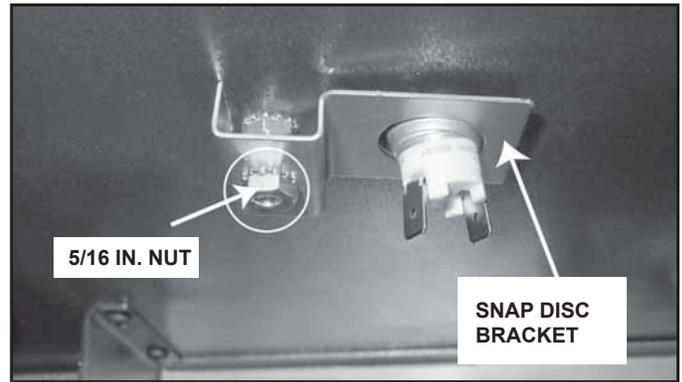


Figure 10

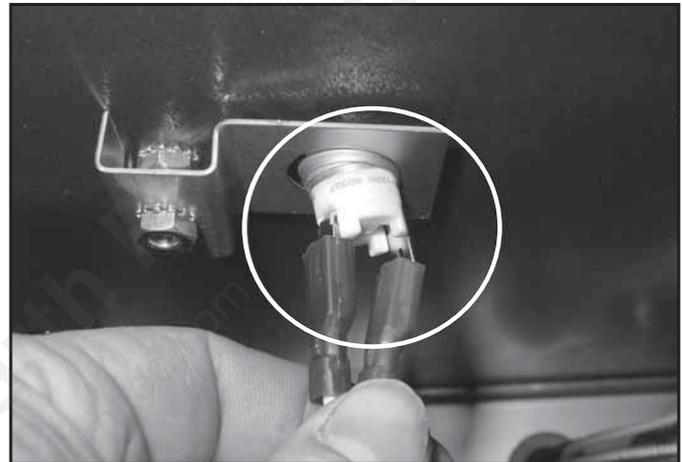


Figure 11

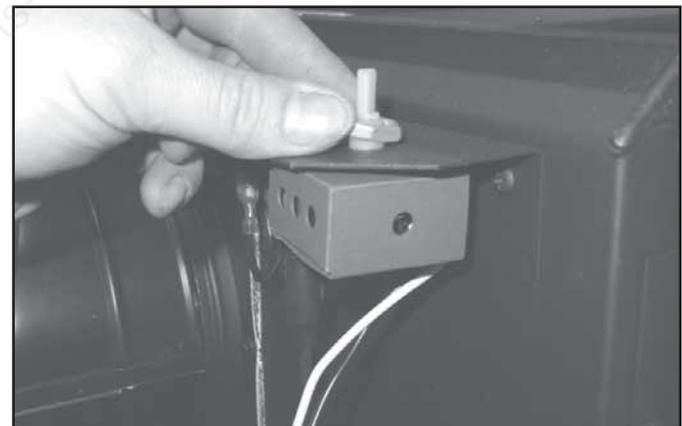


Figure 12

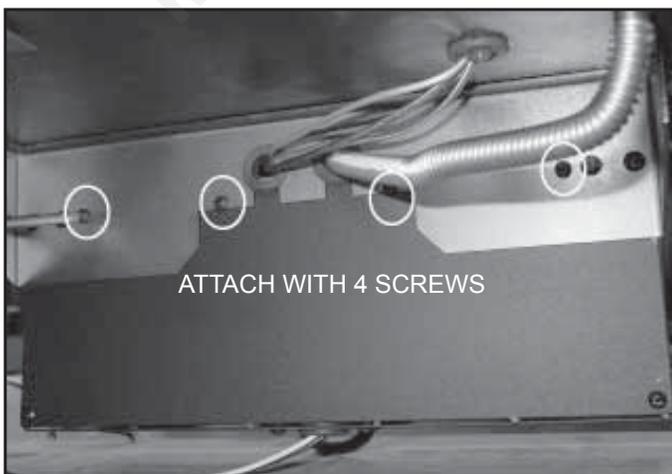


Figure 9



Figure 13

GARNET & TIARA PETITE

Kit Contents Required:

- Blower mounted in housing with wiring harness
- Speed control (rheostat)
- Speed control knob
- Pal nut
- Snap disc
- Screws
- 1 zip-tie.

Stove Component Pack Contents Required:

- Snap disc bracket
- 10-32 nut

Tools Required:

- Short #2 Phillips screwdriver
- 11/16" wrench
- 3/8" wrench

Installation

1. Disconnect gas (if connected) and remove the top of the appliance and set aside. Remove the back shield by removing the two screws along the top of the shield.
2. Place the blower on the floor behind the appliance and route the ends of the wiring harness through the rubber grommet on the underside.
3. Holding the blower in place, attach it to the appliance with four of the screws provided. See Figure 14.
4. Install the snap disc. A snap disc bracket is located in the appliance's component bag. Bend the two spade terminals on the snap disc from a horizontal to a vertical position. Insert the snap disc through the hole in the snap disc bracket and attach the two white wires from the wiring harness to the snap disc. See Figure 15.
5. With the cast iron front of the appliance removed, remove the decorative cover located under the appliance. To remove the cover, remove the two screws on the front of the appliance that hold the cover in place. Pull the cover forward, down and out.
Attach the snap disc bracket to the stud located under the left side of the appliance using the 10-32 nut. Figure 16.
6. Install the speed control (rheostat). The speed control mounts to the decorative cover removed in Step 5. Insert the stem of the speed control through the hole located on the right side of the cover. Secure with the pal nut using an 11/16" wrench. See Figure 17.
7. Attach the black and white wires routed under the stove in Step 2. Push the speed control knob onto the stem and re-attach the decorative cover.
8. Secure the wires up and out of the way using the zip tie provided and plug in the blower.

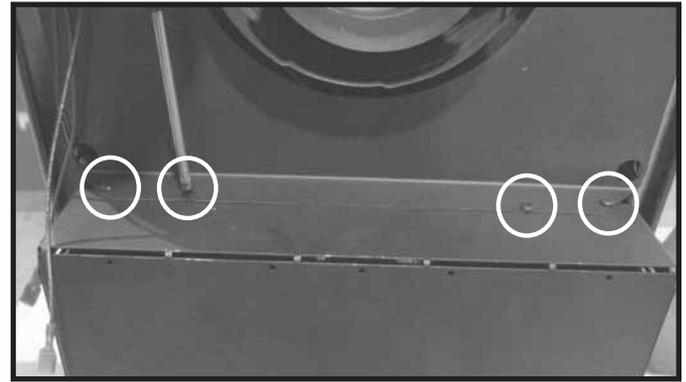


Figure 14

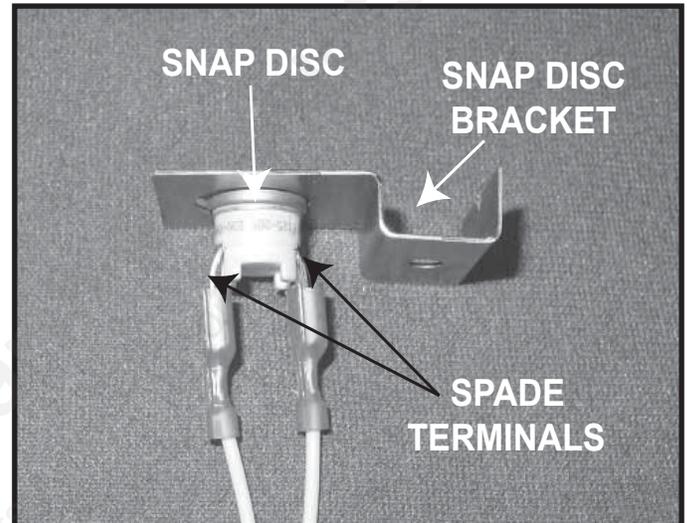


Figure 15

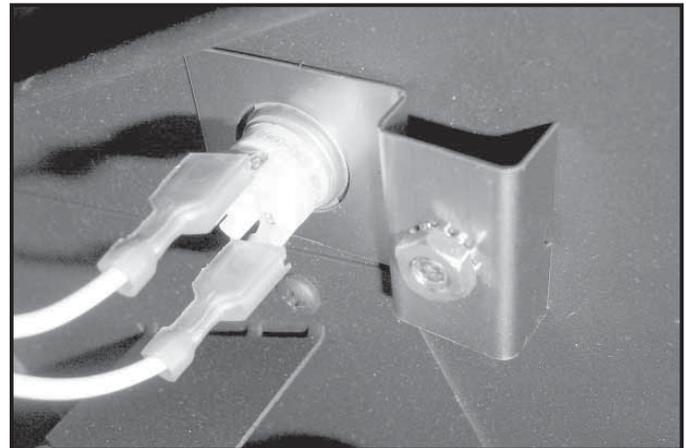


Figure 16

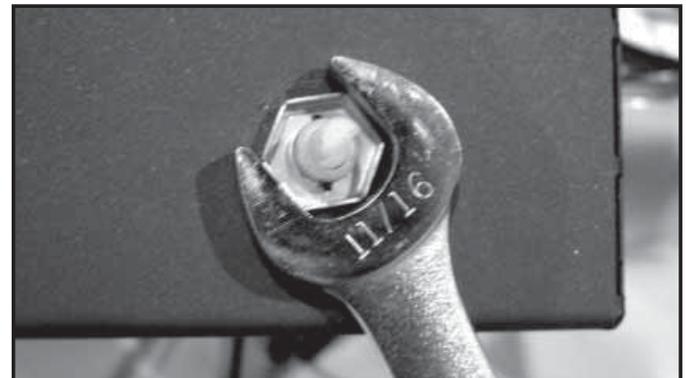


Figure 17

DV400 & DV450

Installation also requires components from Kit #BK-GAS-ADPT.

Kit Contents Required:

Blower mounted in housing with wiring harness
Speed control (rheostat)
Speed control knob
Pal nut
Snap disc
Tape gasket
Screws
1 zip-tie.

BK-GAS-ADPT Kit Contents Required:

Bracket #2
Speed control housing

Tools Required:

#2 Phillips screwdriver
11/16" wrench
Standard screwdriver

Installation

1. Disconnect the gas (if connected) and pop out the blower knockout plate from the rear shield using a standard screwdriver. See Figure 18.
2. Apply the tape gasket to the lower edge of the knockout. See Figure 19.
3. Attach the Bracket #2 to the fan housing with three screws. See Figure 20.
4. Mount the blower to the appliance with three screws. See Figure 21.
5. Install the speed control (rheostat) in the housing. Using an 11/16" wrench, tighten the pal nut on the speed control until snug. Attach the speed control knob. See Figure 22.
6. Attach the speed control housing to the rear of the appliance, near the switch bracket. See Figure 23.



Figure 18

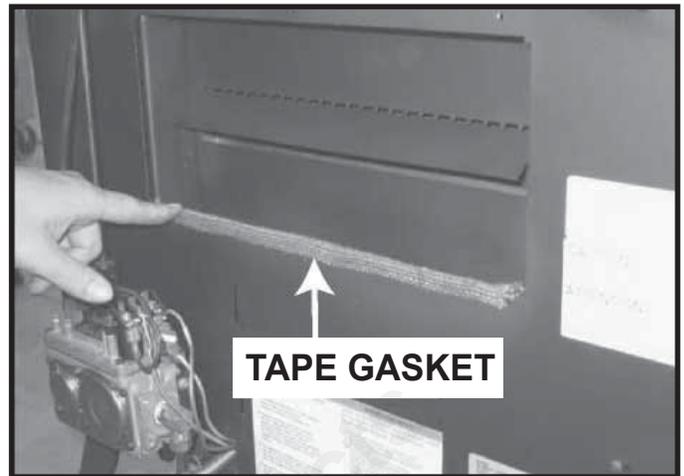


Figure 19

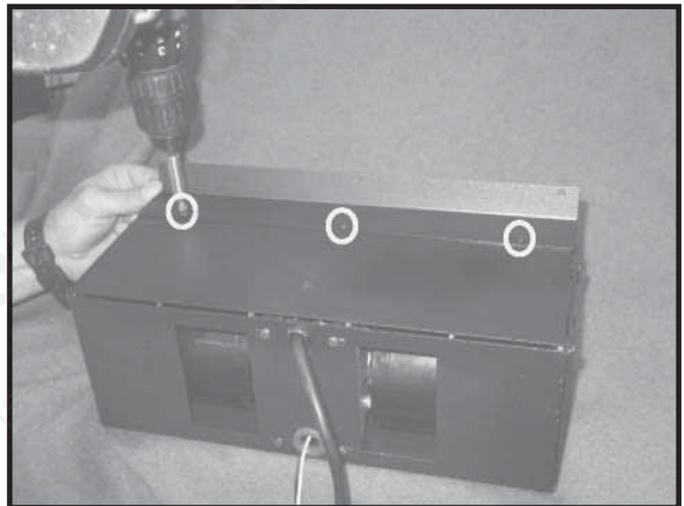


Figure 20

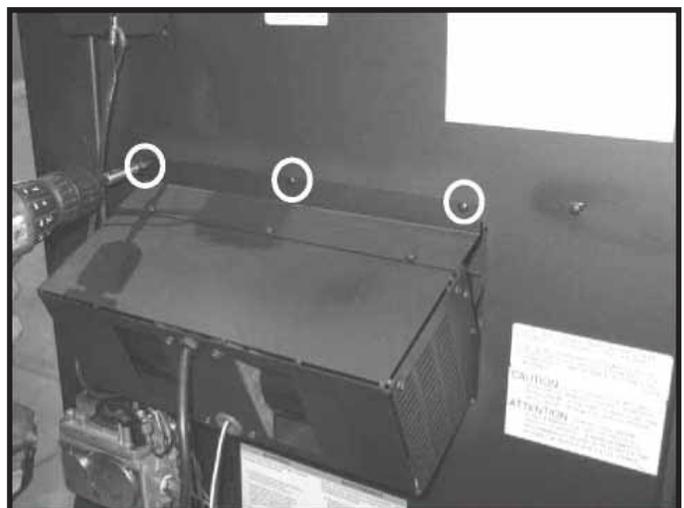


Figure 21



Figure 22

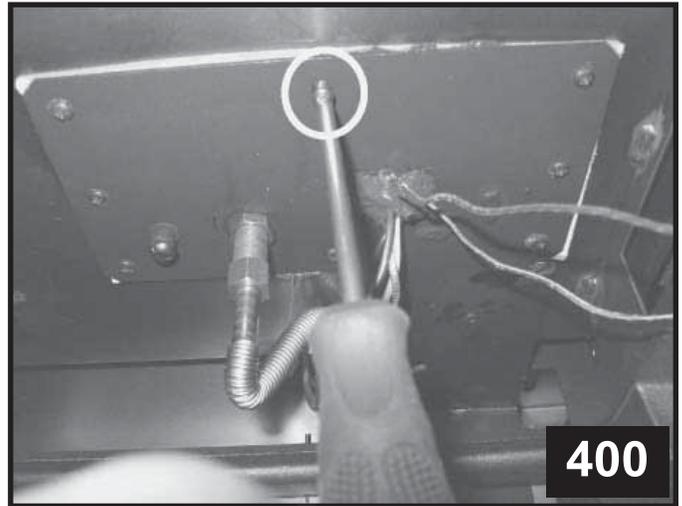


Figure 25

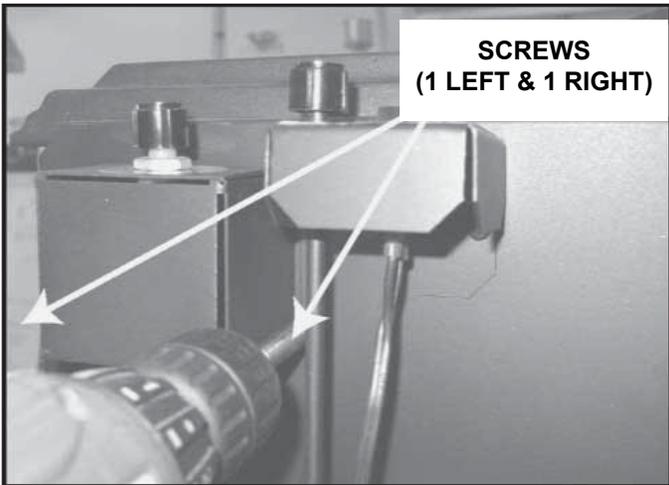


Figure 23

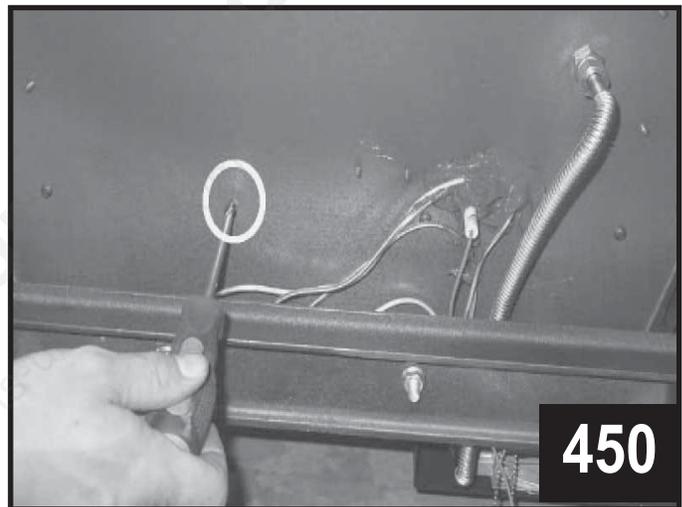


Figure 26

7. Route the white wires through the snap disc bracket and attach the wire terminals to the snap disc Pull flush in the bracket. See Figure 24.
 8. Remove the screw as shown in Figure 25 (DV400) or Figure 26 (DV450) and save for use in Step 9.
 9. Using the same screw and hole from Step 8, mount the snap disc bracket through the hole on the top side to the appliance. See Figure 27.
- NOTE: Ensure the open end of the bracket is toward the rear of the appliance.
10. Gather the loose wires and wrap together with the wire tie.
 11. Connect power to the fan kit.

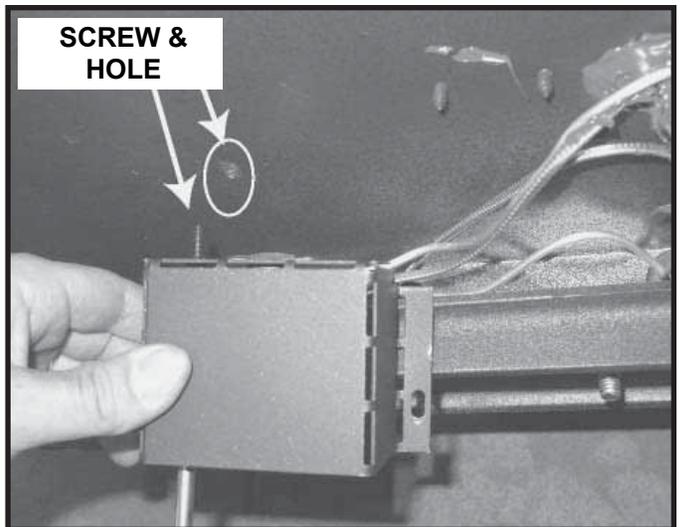


Figure 27

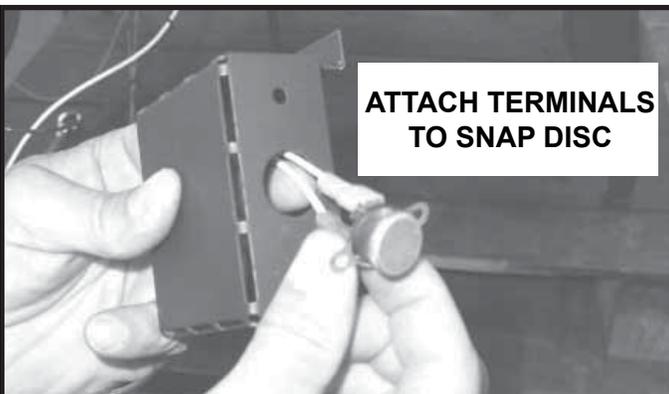


Figure 24

DV750

These installations also require components from Kit #BK-GAS-ADPT.

Kit Contents Required:

Blower mounted in housing with wiring harness
Speed control (rheostat)
Speed control knob
Pal nut
Snap disc
Tape gasket
Screws
1 zip-tie.

BK-GAS-ADPT Kit Contents Required:

Bracket #1 and bracket #2

Tools Required:

#2 Phillips screwdriver
11/16" wrench

Installation

1. Disconnect gas (if connected) and remove the four screws from the blower housing as shown in Figure 28 and set screws aside.
2. Mount the 750 fan brackets A and B to the blower housing with the four screws previously removed in Step 1.
3. Run the white wire leads through the snap disc opening on the fan bracket. Connect the wire leads to the snap disc. See Figure 29.
4. Set the snap disc flush in the bracket. Bend the leads horizontal. See Figure 30.
5. Attach the blower housing to the rear of the appliance using four screws supplied with the BK-GAS kit. (Two on each side as shown in Figure 31.

NOTE: Make sure the snap disc contacts the bottom of the firebox.

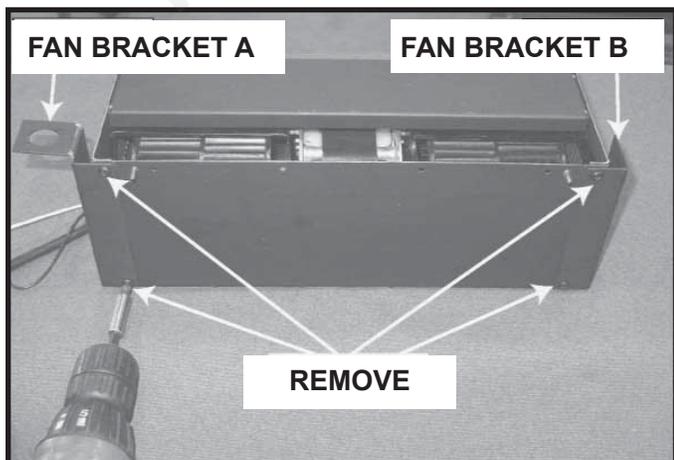


Figure 28

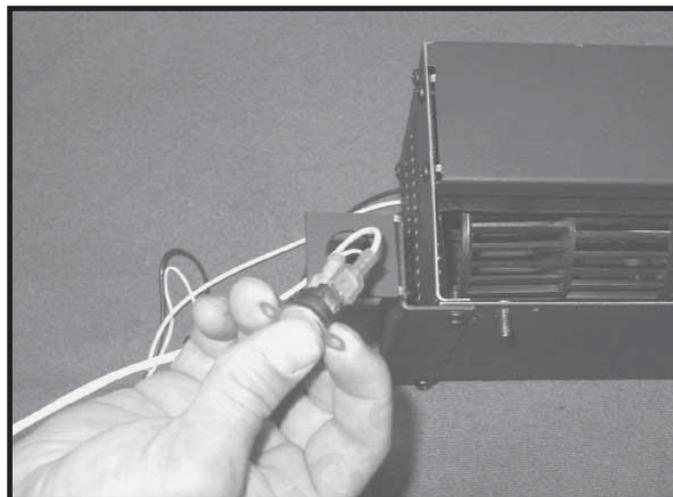


Figure 29

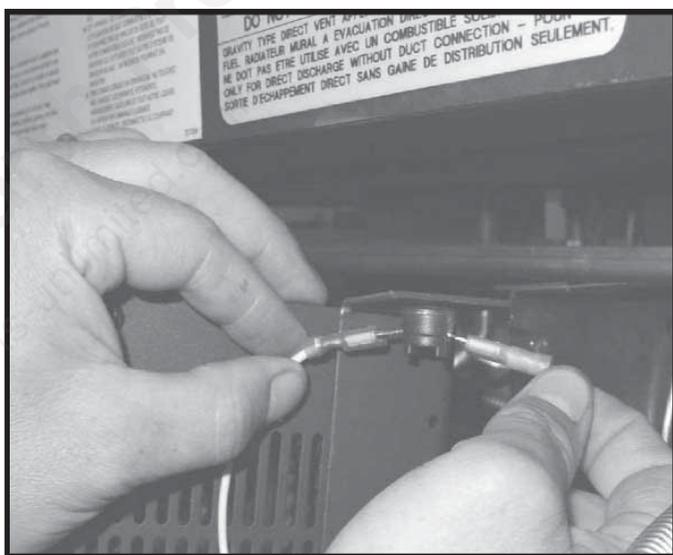


Figure 30

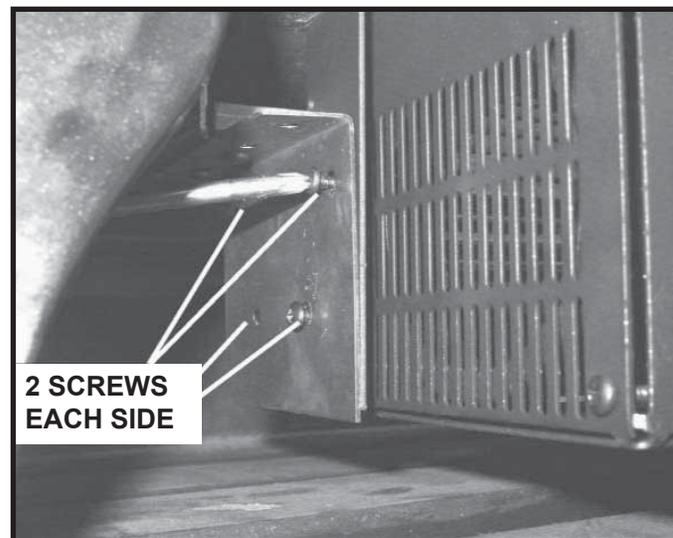


Figure 31

6. Install the speed control (rheostat) in the housing. Tighten the pal nut on the speed control until snug using an 11/16" wrench. See Figure 32.
7. Install the speed control knob.
8. Attach the speed control housing to the rear cover shield with two screws. See Figure 33.
9. Gather the loose wires and wrap together with the wire tie.
10. Connect power to the fan kit.



Figure 32

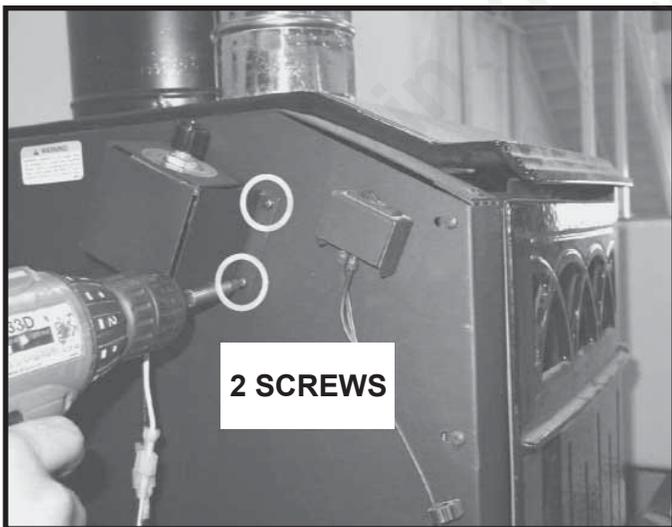


Figure 33

Please contact your Hearth & Home Technologies dealer with any questions or concerns.
For the location of your nearest
Hearth & Home Technologies dealer,
please visit www.hearthnhome.com.

Hearth & Home Technologies
7571 215th Street West, Lakeville, MN 55044
www.hearthnhome.com