



# Fan, DVI Insert – 31 and 33 DVI Installation Instructions (sku 99000167)

## Packing List

- Left and Right Blower Assembly (with grommets and bushings)
- (2) Blower Mounting Nuts
- Wiring Harness
- Rheostat
- Snap Disc
- Rheostat Nut and Knob
- Nylon Rheostat Spacer
- Rheostat Extension Harness
- Star Washer for Grounding Wire

## Installation

**WARNING:** Make sure power to the insert has been shut off prior to installation (unplug the power cord). Do not connect 110-120 VAC to the gas control valve or wiring system of this fireplace.

**HINT:** Install the blower prior to connecting the gas line or installing the insert.

- 1 Access the back of the insert and remove the 14 screws holding the back panel in place (see Figure 1). Remove the back panel and place it aside (see Figure 2).

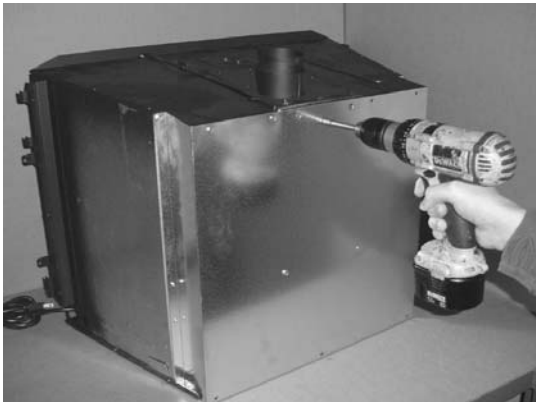


Figure 1

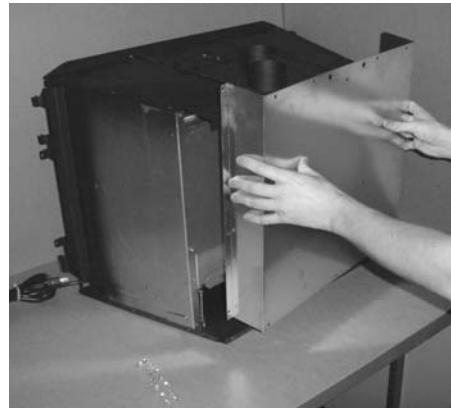


Figure 2

- 2 Remove the two screws on each side of the insert baseplate (see Figure 3).

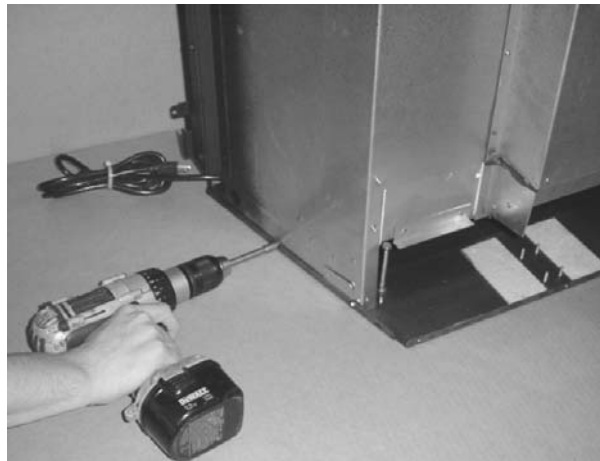


Figure 3



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- The baseplate is attached to the insert with two rivets at the front. By pushing on the top of the insert you can tilt the insert upwards, allowing for better access to the area under the insert (see Figure 4). A bracket is provided on both sides to prop the insert up (see Figure 5). Rotate these bracket down.

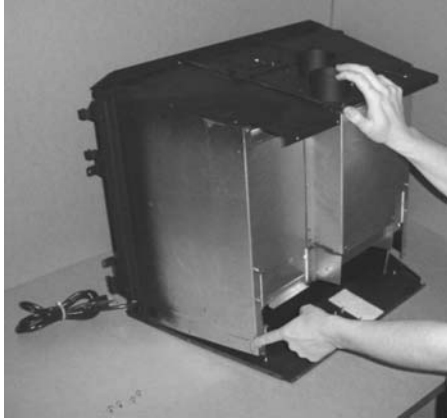


Figure 4

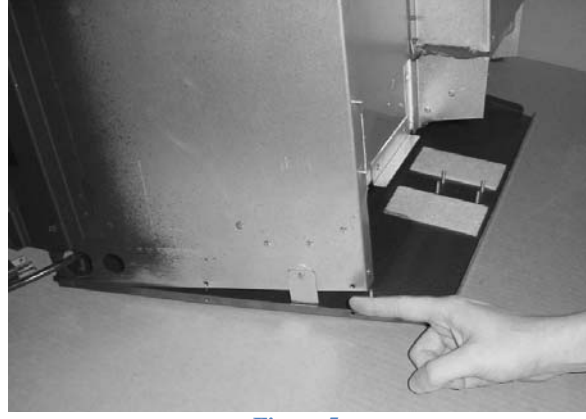


Figure 5

- The snap disc is installed from behind the insert (see Figure 6). Attach the wires labeled “SNAP DISC” to the snap disc and slide it into the snap disc holder.

**NOTE:** Newer inserts (Rev 001 or later) are shipped with the snap disc installed. Attach the wires to the snap disc to complete this step.

**NOTE:** The snap disc holder may be on the right or left, depending upon when the insert was manufactured. See Figure 7 and Figure 8 for pictures of the two locations.

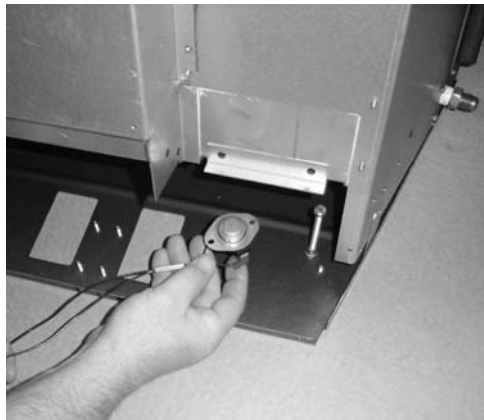


Figure 6

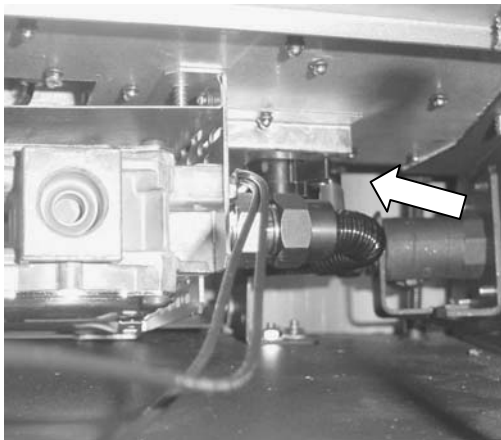


Figure 7

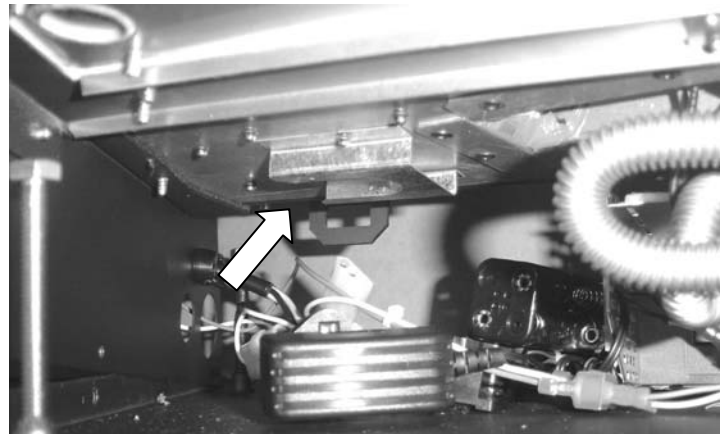


Figure 8



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- 5 Route the wires labeled “BLOWER” to a location behind the insert (see Figure 9). Place the blowers near the back of the insert and attach these wires as shown in Figure 10.

**NOTE:** Attach the two blue wires to the left blower, the two red wires to the right blower as shown in the photo. This allows the wires to reach the power input and snap disc.



Figure 9

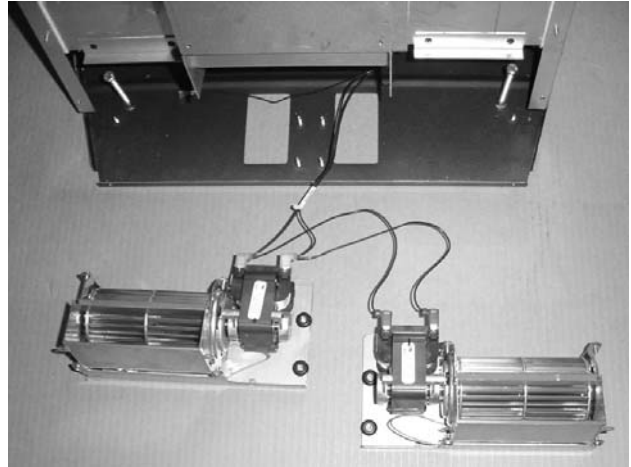


Figure 10

- 6 Route the two remaining wires under the gas control valve (see Figure 11). Route the power input molex connector to the right of the insert, near the power cord (see Figure 12).

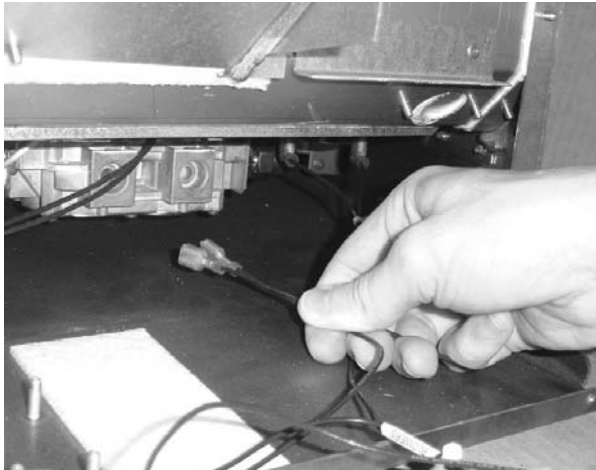


Figure 11

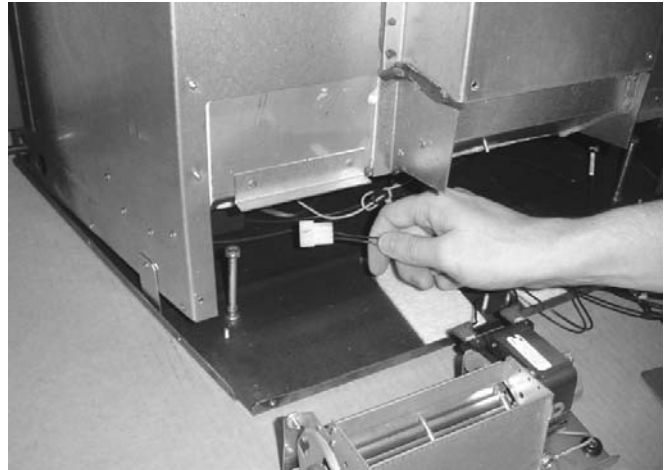


Figure 12



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- 7 Make sure the grommets and bushings are properly positioned on the blower assemblies (note: there are four grommets and three bushings on each assembly – the outer back grommet does not require a bushing). Place the blower in place, making sure each grommet and bushing slides over the press studs on the baseplate (see Figure 13). Each blower is secured with a single nut (this keeps the blower from dislodging while positioning the insert). Use the center nut near the front. Secure one blower with the included nut. Place the ground wires over the other post, insert the star washer over the post, and secure using the remaining nut (see Figure 14). Do not over-tighten these nuts.

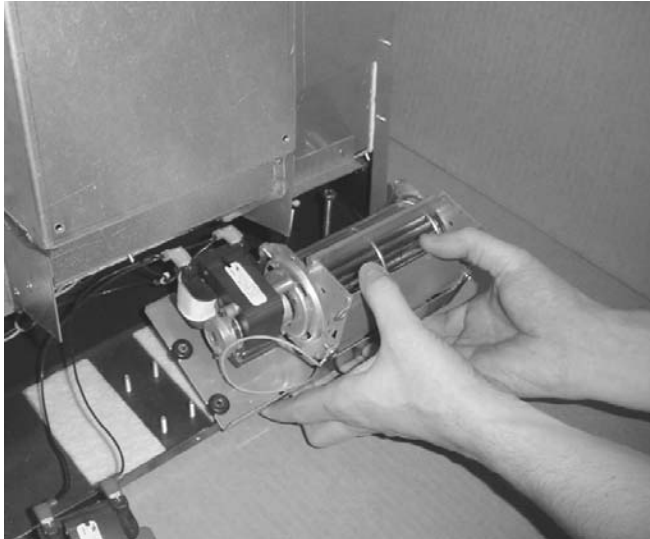


Figure 13

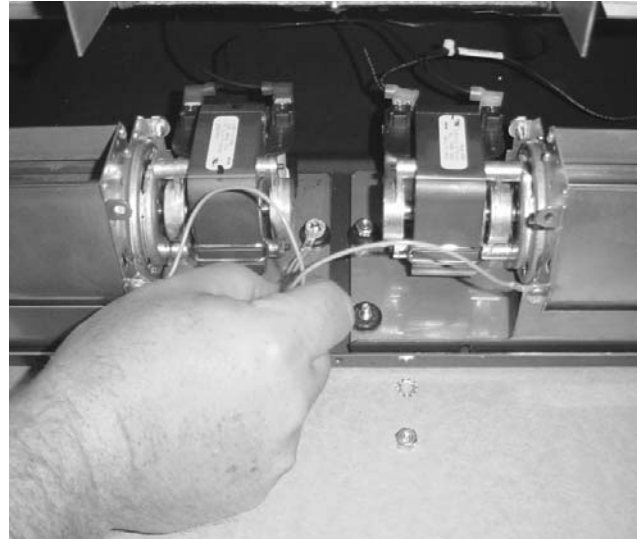


Figure 14

- 8 Make sure all wiring is routed away from the blower and sides of the insert. While holding the insert up, carefully rotate the brackets on the side of the insert upwards to allow the insert back into contact with the baseplate (see step 3 above). Secure the baseplate to the sides of the insert (see Figure 15). Replace the back panel using the screws removed earlier (see Figure 16).

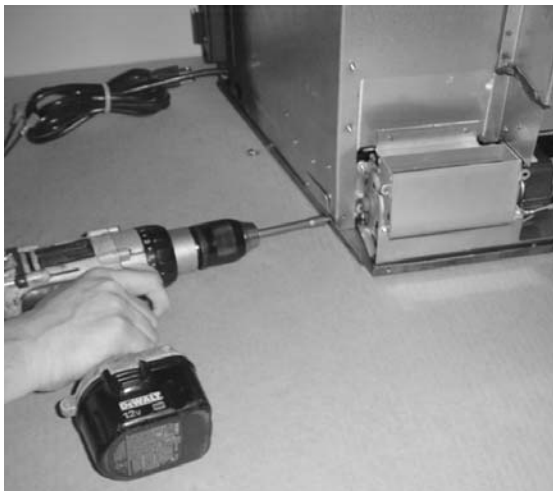


Figure 15



Figure 16





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- 9 Access the front of the insert. Remove the four screws holding the control cover in place (see Figure 17). Pull the control cover forward slightly and disconnect the flame height knob (do not remove the knob - see Figure 18). This allows the control cover to move upwards, away from the concealment cover.



Figure 17



Figure 18

- 10 Pull the control cover forward, taking care to not damage any wiring (see Figure 19). This will allow access to the power input and wiring harness.

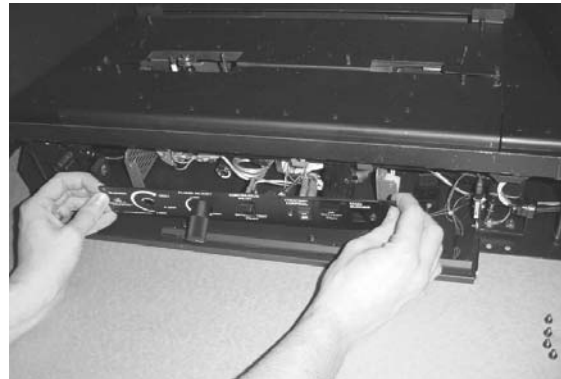
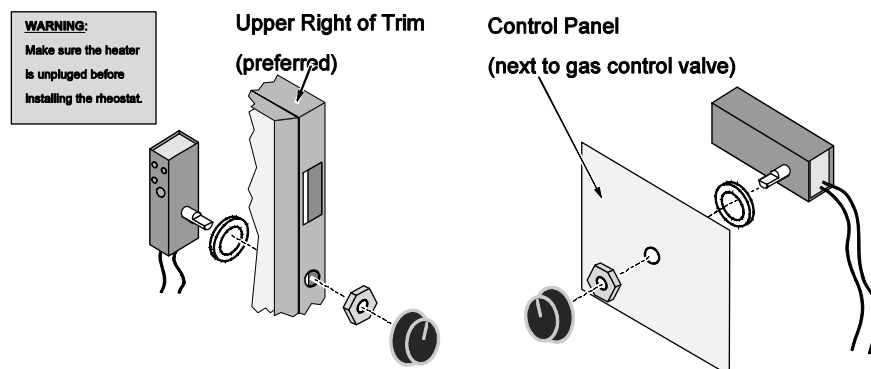


Figure 19

- 11 The rheostat may be installed in either the control panel or on the surround panel. If installing in the surround panel, use the included extension wires to extend the wires (make sure the wires do not contact any hot or moving parts). Attach the rheostat wires to the wiring harness and secure to either the control panel or surround panel. See the illustration below for details.

**NOTE:** The wires may be tight when the rheostat is attached to the control panel on the 33 DVI. Use the extension wires if necessary.





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- 12 Attach the power input molex connector on the wiring harness to the molex connector on the insert (see Figure 20). Carefully tuck the wires under the burner, making sure wiring does not contact any hot or moving surfaces. Use wire ties, if necessary, to secure the wiring.

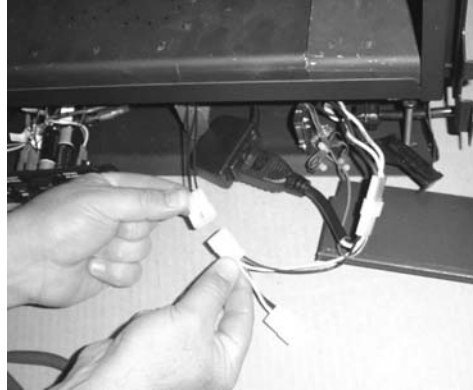


Figure 20

- 13 Replace the control cover and concealment cover and return the insert to the correct configuration.