These instructions are supplementary to the Installation and Operating Instructions supplied with the fireplace and should be kept together. Refer to the Installation and Operating Instructions for proper gas supply, safety requirements and operating instructions.
Contents of Package

- BURNER
- BURNER TRAY ASSEMBLY
- TUMBLED GLASS
- BURNER SHIELD
- MANIFOLD ASSEMBLY
  (including supply tube)
- PILOT SHIELD
  (including pilot and pilot supply tube)
- HARDWARE PACKAGE
- MEDIA SPACER, rear
- MEDIA SPACER, front
- MEDIA SPACER, center

NOTE: MUST BE USED WITH PORCELAIN PANELS #TC42.PNLPBKB

Burner Installation

A porcelain panel set must be used in conjunction with the installation of the burner assembly. See Installation and Operating Instructions manual for details.

1. Remove the three lower screws from the air channel at the back of the firebox and attach the manifold assembly to the back of the firebox. (Fig. #1)
2) Attach the manifold and pilot supply tubes to the bulk head fitting and tighten. (Fig. # 2) Ensure that all connections are gas tight.
3. Secure the electrical bulkhead plate (Fig.#3) and gasket to the firebox. (2 screws) Attach the ignition and sensor wires to the module. (Fig.#4).

4. Panel clips must be installed on the bottom of both side panels (notch facing inside). (Fig. #5) to ensure proper positioning of the burner shield. This must be done at the same time as installing the porcelain side panels.

5. Install rear panel of porcelain panel set. The base panel of the porcelain panel set is not used with the Black Diamond installation, and may be discarded.
6. Install burner shield by tipping the shield into the firebox, catching the folded edges in the panel clips. (Fig. #6)

7. Position clip nuts, included in hardware package, onto burner shield. (Fig. #7)
8. Attach the burner tray to the burner shield using two screws at the back of the tray. (Fig. #8)

9. Attach pilot shield to burner tray with two screws. (Fig. #9)
10. Install front & rear media spacers. (Fig. #10 & 11)

11. Set the burner air shutter to fully open for propane or fully closed for natural gas.
12. Install burner by tilting burner inlet through tray. Ensure that the orifice has entered the inlet tube. (Fig. #12 & 13)
13. Install the center media spacer and secure spacer to the tray with the two long screws provided. (Fig. #14)

14. Apply just enough glass media to cover the burner assembly. (Fig. #15)

NOTE: Too much glass media over the burner will cause sooting with the use of propane gas.

Unit is designed specifically to use glass media part # 5012.01. Use of any other glass or material will void warranty.
WARNING

This conversion kit shall be installed by a qualified service agency in accordance with the manufacturer's instructions and all applicable codes and requirements of the authority having jurisdiction.

If the information in these instructions is not followed exactly, a fire, explosion or production of carbon monoxide may result causing property damage, personal injury or loss of life.

The qualified service agency is responsible for the proper installation of this kit.

The installation is not proper and complete until the operation of the converted appliance is checked as specified in the manufacturer's instructions supplied with the kit.

CAUTION

The gas supply and electrical power shall be shut off before proceeding with the conversion.

If the unit is to be used on propane convert as follows using the components supplied with this fireplace:

Note: Factory supplied components must be used to ensure correct input.

After conversion confirm proper manifold pressure.

1. Ensure the burner, pilot and gas supply are turned off, and the appliance has cooled.

2. With a ½” wrench remove the natural gas orifice and replace with propane orifice (our part # 5021.31) (Fig. #16)

3. Fully open the primary air shutter.

4. Remove the pilot shield from the burner tray by removing two screws (Fig. #17)

5. With a 7/16” wrench loosen the pilot head on the pilot assembly by a half-turn (Fig. #18)
6. Slide the pilot adjustment band over and ensure that the hole in the orifice band is showing. (Fig. #19 indicates NG position, Fig. #20 indicates LP position)

7. Remove access panel, 10 screws, and set aside.

For complete valve installation instructions, refer to the instruction book included in the SIT conversion kit.
**Burner Flame Adjustment**

The air shutter on the burner inlet tube controls the primary combustion air to the gas burner and is preset closed at the factory for natural gas fuel. Some adjustment may be necessary to obtain desired flame and to eliminate carbon deposits. Evaluate flame appearance after the fireplace has reached operating temperature. See Fig. #21 for proper flame pattern.

Open primary air shutter if the glass, and firebox have carbon accumulation and/or the flames are long, dark and stringy. The shutter may also be opened to lessen the flame height.

**Caution: Burner area may be hot!**

Turn off the fireplace and allow the unit to cool before proceeding.

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**To Adjust:** (See Fig. # 22)

1. Open and remove window frame and set aside. See "Window Frame Removal" section found in the Installation and Operating Instructions manual.

2. Remove the lower rear panel and set aside.

3. Loosen the screw securing the primary air shutter.

4. Rotate the shutter to increase or decrease the amount of primary air.

5. Re tighten the primary air shutter.

6. Reinstall lower rear panel.

The flame should be just orange and “lazy.” It should NEVER be set to create sooting on internal parts and glass.
## Replacement Parts

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<tr>
<th>ITEM</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
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<td>BURNER</td>
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<td>2</td>
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<td>PILOT SHIELD</td>
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<td>1/2” FLEX TUBE (Manifold)</td>
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<td>TUMBLED GLASS</td>
<td>5012.01</td>
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*Not sold separately*