IMPORTANT: THESE INSTRUCTIONS ARE TO REMAIN WITH THE HOMEOWNER

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.



TC42 BLACK DIAMOND BURNER KIT INSTRUCTIONS





PART# TC42.NG03C FOR TC42

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

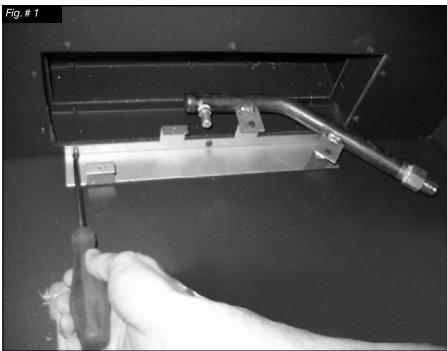


NOTE: MUST BE USED WITH PORCELAIN PANELS #TC42.PNLPBKB

Burner Installation

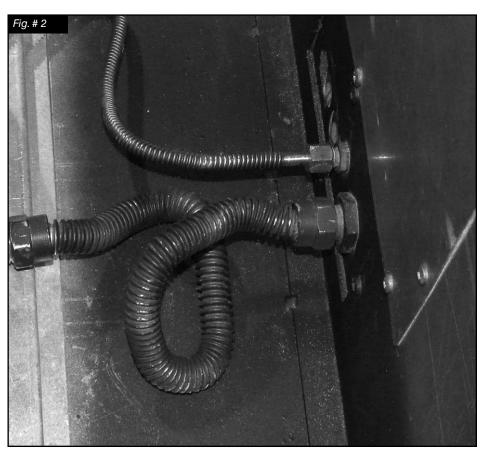
A porcelain panel set must be used in conjunction with the installation of the burner assembly. See Installation and Operating Instructions manual for details.

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)

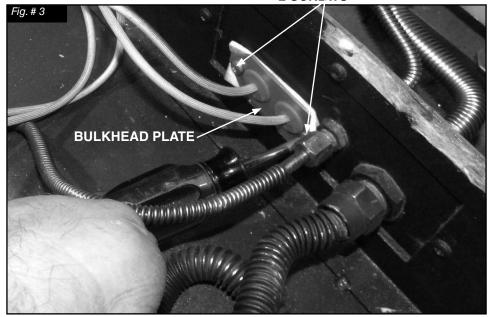




 Attach the manifold and pilot supply tubes to the bulk head fitting and tighten. (Fig. # 2) Ensure that all connections are gas tight.



2 SCREWS

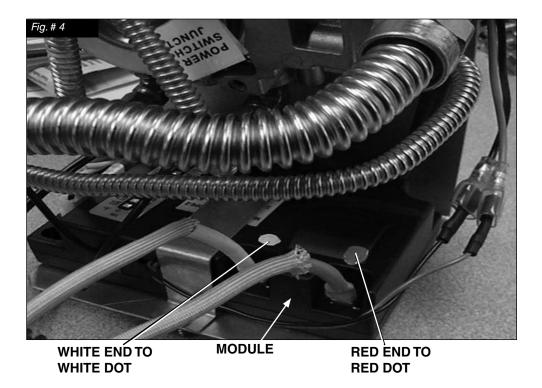


NOTE: If converting to propane refer to the propane conversion section before continuing. Pg. 10

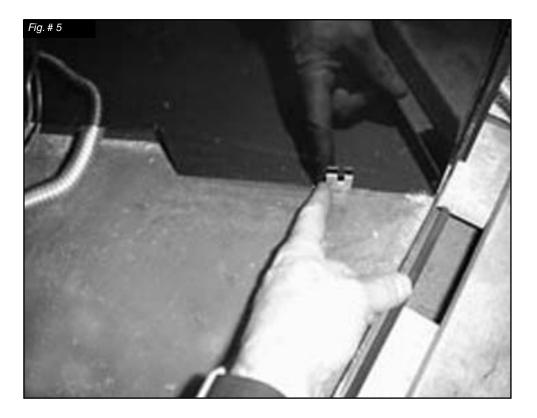
3. Secure the electrical bulkhead plate and gasket to the firebox. (2 screws) Attach the ignition and sensor wires to the module. Red end to the connector marked by the red dot, white end to the connector marked

by the white dot(Fig. #3 & 4)

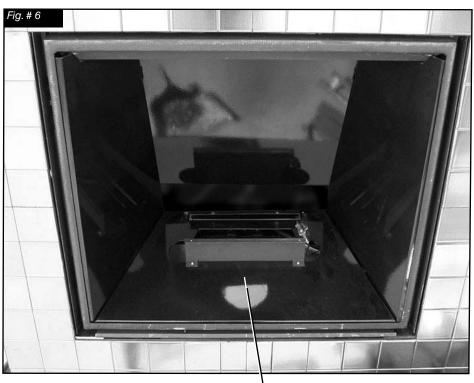




- Panel clips must be installed on the bottom of both side panels (notch facing inside). (Fig. #5) to ensure proper positioning of the burner shield. This must be done at the same time as installing the porcelain side panels.
- 5. Install rear panel of porcelain panel set. The base panel of the porcelain panel set is not used with the Black Diamond installation, and may be discarded.

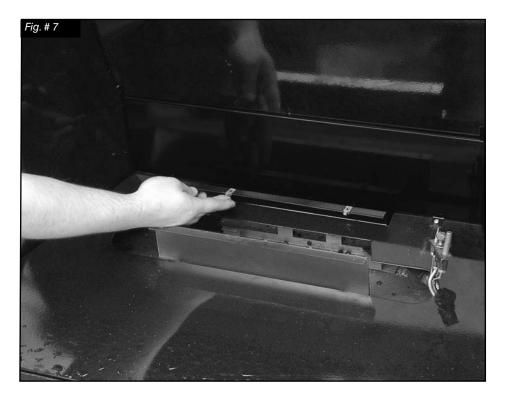


6. Install burner shield by tipping the shield into the firebox, catching the folded edges in the panel clips. (Fig. #6)



INSTALLING BURNER SHIELD

7. Position clip nuts, included in hardware package, onto burner shield. (Fig. #7)

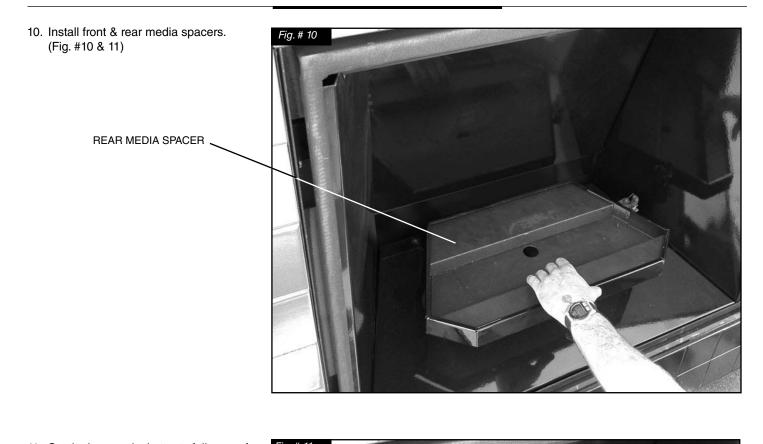


 Attach the burner tray to the burner shield using two screws at the back of the tray. (Fig. #8)



9. Attach pilot shield to burner tray with two screws. (Fig. #9)





11. Set the burner air shutter to fully open for propane or fully closed for natural gas.





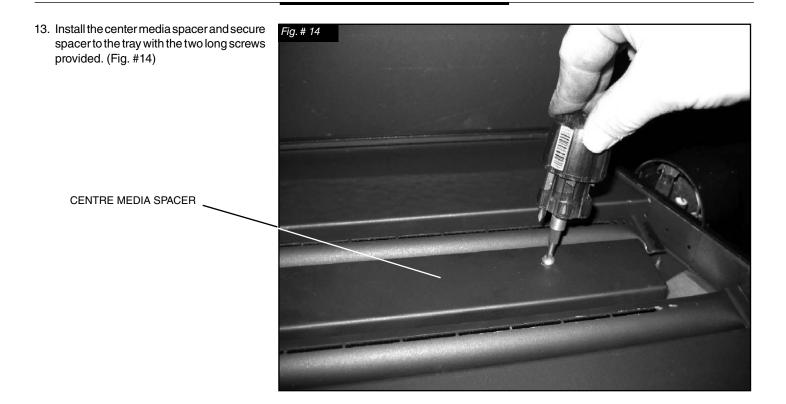


12. Install burner by tilting burner inlet through tray. Ensure that the orifice has entered the inlet tube. (Fig. #12 & 13)









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.

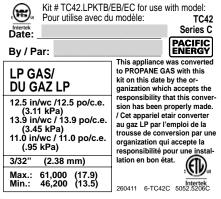
The installation is not proper and complete until the operation of the converted appliance is checked as specified in the manufacturer's instructions supplied with the kit.

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 convertasfollowsusingthecomponents supplied with this fireplace:

Propane Conversion



CONVERSION LABEL (5052.5206C)



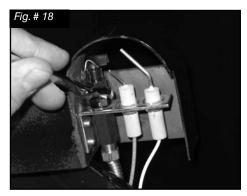
Note: Factory supplied components must be used to ensure correct input. After conversion confirm proper manifold pressure.

- 1. Ensure the burner, pilot and gas supply are turned off, and the appliance has cooled.
- With a ½" wrench remove the natural gas orifice (#25) and replace with propane orifice (3/32")(our part # 5021.31) (Fig. #16)
- 3. Fully open the primary air shutter.
- Remove the pilot shield from the burner tray by removing two screws (Fig. #17)

 With a 7/16" wrench loosen the pilot head on the pilot assembly by a half-turn (Fig. #18)

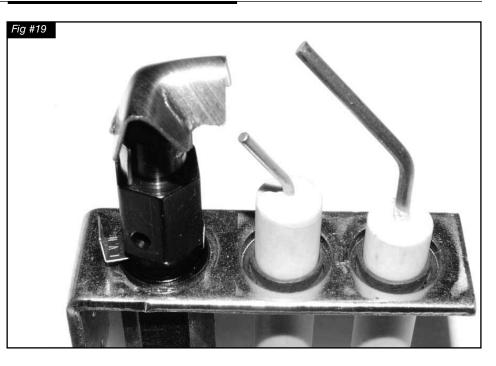




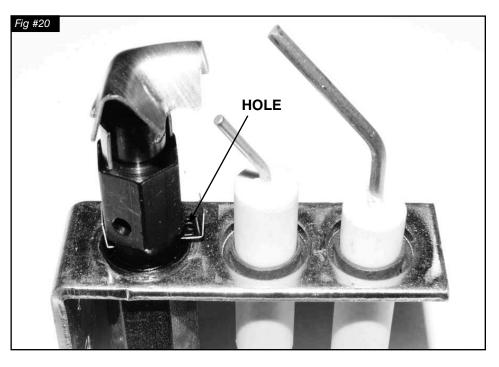


TOWN & COUNTRY LUXURY FIREPLACES

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. (Fig. #23)



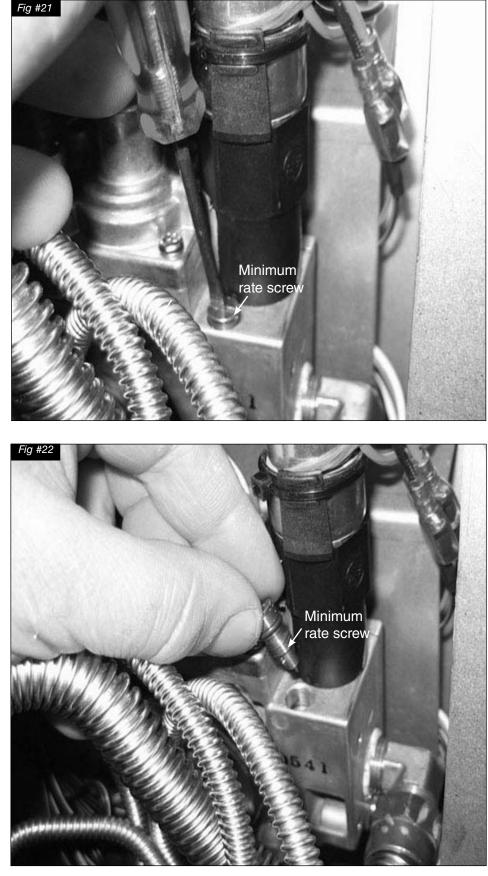
8. Remove the minimum rate screw located in the valve. (Fig. #21)

9. Replace the minimum rate screw with the one provided in the propane conversion kit supplied with this burner. Ensure that the screw is fully installed. (Fig. #22)

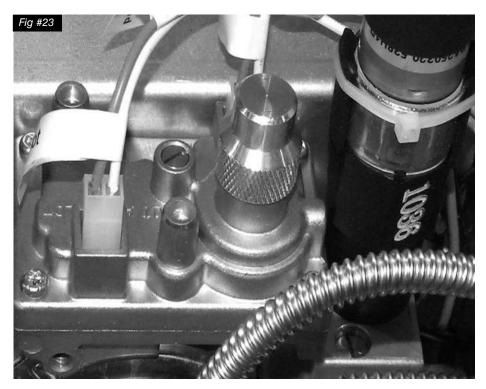
The minimum rate screw is sealed with an o-ring. Use a thin bladed screwdriver to back the screw out to the limit of the threads.

A groove on the screw body will be visibe just above the valve body. Insert a thin tool (knife blade or thin screwdriver blade) into the groove and gently pry the screw up.

It helps to rotate the screw while lifting on it.

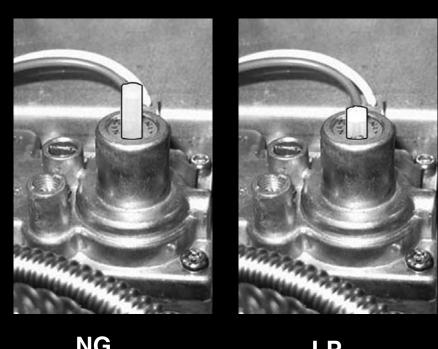


10) Remove the aluminum cap from the top of the pressure regulator. (Fig. #23)



11) Press down on the center post and rotate 90° . The center post should stay down. (Fig. #24). Replace the aluminum cap.

Fig #24





LP

12) Fill in the date and the name of the person who performed the conversion in the white area on the conversion label. Peel off the protective backing and apply the conversion label directly over the gas specifications on the rating label.

13) Attach the access panel to the side of the firebox with the previously removed screws. (Fig. #25)

Note: Gasket must be installed with access panel.



Kit # TC42.LPKTB/EB/EC for use with model: Pour utilise avec du modèle:

Date:

TC42 Series C

By / Par:

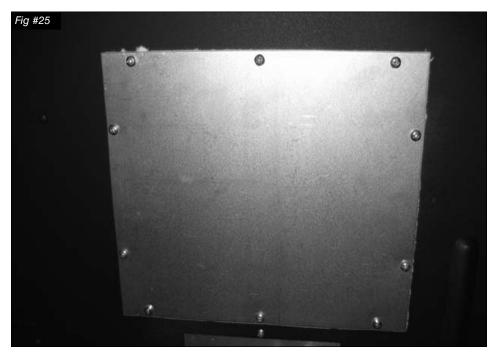


LP GAS/ DU GAZ LP 12.5 in/wc /12.5 po/c.e. (3.11 kPa) 13.9 in/wc / 13.9 po/c.e. (3.45 kPa) 11.Ò in/wc / 11.0 po/c.e. (.95 kPa) 3/32" (2.38 mm)Max.: 61,000 (17.9)46,200 (13.5) Min.:

This appliance was converted to PROPANE GAS with this kit on this date by the organization which accepts the responsibility that this conversion has been properly made. / Cet appariel etair converter au gaz LP par l'emploi de la trousse de conversion par une organization qui accepte la responsibilité pour une installation en bon état.



260411 6-TC42C 5052.5206C



Gas Pressure Check

Note: To test the gas pressure, turn off the gas supply before removing the plug from the supply pressure test port or manifold pressure test port.

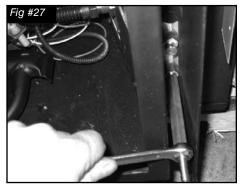
1.

Verify gas pressures with the fireplace lit and on the highest setting.

SUPPLY



MANIFOLD



- 2. Thread the extension test fitting into the open test port. (Fig. #27)
- 3. Attach a pressure gauge onto the fitting.

Remove the plug from the

firebox side. (Fig. #26)

pressure test port. The plug is located between the right side lintel and

4. When testing is complete remove the extension test fitting and replace the plug. Thread sealant will be required to ensure a gas tight connection.

Correct ga	Correct gas pressure requirement:		
Supply Pressure (For purpose of input adjustment)	Natural Gas	Propane	
Minimum Maximum	5.0" WC 13.9" WC	12.5" WC 13.9" WC	
Manifold Pressure			
Maximum Minimum	3.8" WC 2.1" WC	11" WC 5.5" WC	



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. #28 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.

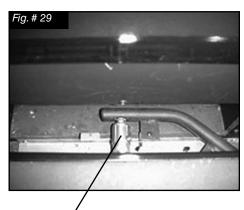


The flame should be just orange and "lazy." It should NEVER be set to create sooting on internal parts and glass.

To Adjust: (See Fig. # 29)

- 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.



PRIMARY AIR SHUTTER

Replacement Parts

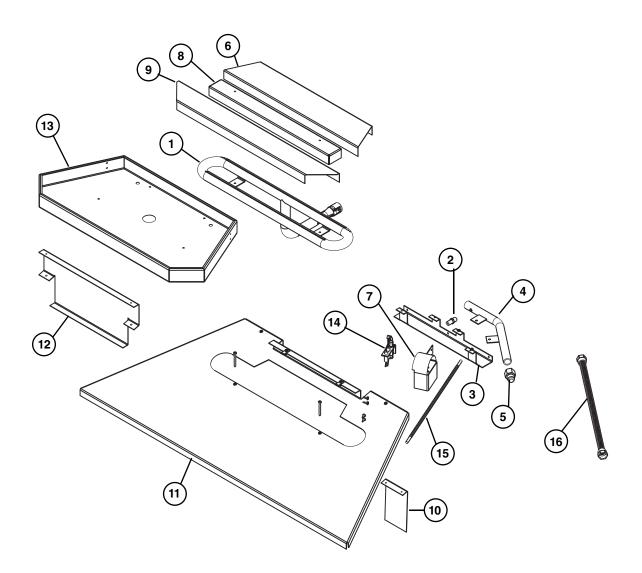
ITEM DESCRIPTION.....PART NO.

1BURNER 2ORIFICE, NG	
ORIFICE, LP	
3MANIFOLD STAND	
4MANIFOLD	TC42.90881
5DORMONT FITTING	
6MEDIA SPACER, REAR	
7PILOT SHIELD	TC36.9626PBK
8MEDIA SPACER, CENTRE	
9MEDIA SPACER, FRONT	

ITEM DESCRIPTION	.PART NO.
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10SHIELD LEG 11BURNER SHIELD 12TRAY SUPPORT
13BURNER TRAY 14PILOT ASSEMBLY, CONVERTIBLETCRP.5005025
15
161/2" FLEX TUBE (Manifold) 5019.223
HARDWARE PACKAGETC36.HK03 TUMBLED GLASS

*Not sold separately









TECHNICAL SUPPORT: 1-250-748-1184 www.townandcountryfireplaces.net 2975 Allenby Rd., Duncan, BC V9L 6V8