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
COUNTRY HOME
BURNER KIT
INSTALLATION
INSTRUCTIONS
(NATURAL GAS ONLY)

PART# TC42.NG02DN
For TC42 Series D
Fireplaces

Visit www.townandcountryfireplaces.net for the most recent version of this manual
Contents of Package

- Ember material
- 7 Piece log set
- Log grate
- Burner assembly (including pilot and manifold)
- Hardware package (not shown)
- Air deflector

Figure 1: TC42 NG02 kit contents

Burner Installation

1. Place the keyhole slots in the burner (Figure 2) over the two screws located in the firebox base (Figure 3).
2. Slide the burner back to engage the screws in the small part of the keyhole slot and tighten screws.
3. Remove the valve control box access cover from side of firebox (Figure 4).

Figure 2: Attaching burner to floor of fireplace.

Figure 3: Bolts for burner.

Figure 4: Control center access cover.
4. Attach the manifold and pilot supply tubes to the bulk head fitting and tighten (Figure 5).

Ensure that all connections are gas tight.

5. Feed the ignition and sensor wires through the bulkhead plate (Figure 6) to the interface.
6. Attach the ignition and sensor wires to the module (Figure 7)

7. Reinstall the access panel to the valve control box.

A panel set must now be installed. See Installation and Operating Instructions manual for details.

8. Position the slots of the grate securing brackets over the holes in the floor shield and secure with the two screws (Figure 8).
9. Attach rear deflector to rear of grate using the two screws provided (Figure 9).

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**Ember Material Placement**

A large bag of ember material is shipped with the fireplace and needs to be installed to ensure optimum performance and flame appearance.

Pull apart the material into ember size pieces (approximately 1” squares) and gently place them into the burner pan. Do not compress, leave it loose for best performance.

Fill the burner pan level with the top of the pan at rear, and gradually slope forward to the firebox floor at the front, covering both burner tubes. (Figure 10)

Place remaining ember material outside of the burner pan as desired to cover-up gas lines and brackets.

Note: Ember material placement and amount will affect flame appearance. More ember material results in lower flame height. Add or remove as needed until desired flame affect.

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Figure 9: Rear deflector.

Figure 10: Ember placement.
Gas plumbing and vent connections should be completed before proceeding.

The logs are fragile, and should be handled with care. Unpack and inspect log set. There should be a total of seven logs.

Position the logs as indicated by the following pictures. The three main logs have holes and / or pins. Engage each pin in the corresponding holes. The four smaller logs do not have holes or pins. They rest in position. Locate as per the diagrams (Figures 11-18).

Figure 11: First log placement.

Figure 12: 2nd log placement.
Figure 13: 3rd log placement.

Figure 14: 4th log placement.
Figure 15: 5th log placement.

Figure 16: 6th log placement.
Note:
Improper placement of logs will cause sooting on internal parts and glass. The logs may need to be repositioned slightly to avoid excessive flame impingement.
**Burner Flame Adjustment**

The air shutter on the burner tube controls the primary combustion air to the gas burner and is pre-set 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 Figure 19 for proper flame pattern.

Open primary air shutter if the logs, glass, and firebox have carbon accumulation and/or the flames are long, dark and stringy. The shutter may also be opened to enhance the Ember Material glow and 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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**Figure 19: Example of desirable flame appearance.**

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**To Adjust:** See Figure 20

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 log set and set aside.

3. Remove the air deflector from the log grate.

4. Loosen the screw in the Primary Air Shutter.

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

6. Reassemble in reverse order.

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**Figure 20: Primary air shutter setting.**
### Replacement Parts

*When ordering, include part number with description*

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<th>ITEM</th>
<th>DESCRIPTION</th>
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<td>2</td>
<td>7 PCS LOG SET</td>
<td>5098.311</td>
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<td>3</td>
<td>ORIFICE, NATURAL GAS (4.09mm)</td>
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<td>4</td>
<td>PILOT ASSEMBLY</td>
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*NOT SHOWN*