TC42 TRANQUILITY BURNER KIT INSTALLATION INSTRUCTIONS

PART# TC42. NG04D
For TC42 Series D Fireplaces

Visit www.townandcountryfireplaces.net for the most recent version of this manual
Tranquility Burner Installation

If converting to propane see conversion instructions on page 10 before proceeding.

NOTE: Plug the 4 vacant holes in the bottom of the firebox with 1/2" screws, as they are not required to attach this style of burner.

1. Reshape the pre-existing gas flex lines into the approximate shape needed to fit the new burner (Figure 2).

2. Place left and right covers under the burner tray (Figure 2 and Figure 3).

NOTE: Shutter must be fully closed for Natural gas, fully open for Propane.
3. Position lower rear porcelain panel centered at the rear of the firebox. Place burner assembly into the firebox against the rear panel (Figure 5).

4. Place panel clips under both rear corners of the base plate as shown in Figure 6 (approx. 3” from rear panel).
5. Attach the manifold supply tube and the pilot supply tube to the bulk head fittings and tighten (Figure 7). Ensure that there are no leaks.

6. Secure the electrical bulkhead plate and gasket to the firebox with 2 screws (Figure 8).
7. Attach the ignition and sensor wires to the module (Figure 9).

8. Remove panel retainer from upper heat shield. Install right porcelain panel tilting in from front corner (Figure 10).
9. Slip the side panels into the panel clip as shown in Figure 11.

10. Position upper rear panel on the top of the lower rear panel and behind the right panel. While supporting the upper rear panel install and secure left porcelain panel in the same manner as the right panel (Figure 12)

Secure with the previously removed panel retainer.
11. Slide covers out and attach to base with one screw each (Figure 13).

12. Insert tapered plugs into raised burner ports to prevent sand from entering ports (Figure 14).
13. Place sand in tray. Brush sand smooth and level to just below top of raised burner ports (Figure 15).

14. Gently blow excess sand from around ports.

15. Remove tapered plugs from ports.
16. Remove pebble assembly from packaging by placing hand on top and tipping upside down. Gently place pebble assembly onto sand base using pins to locate position (Figure 16).

17. Place trim rocks at desired locations in the sand around the pebble assembly. Install glass door. Unit is ready for lighting.

NOTE:
Lift pebble assembly from bottom. Do not lift by top rocks. Hollowed out rock must cover the pilot.

NOTE:
Do not place trim rocks on top of the pebble assembly. Sooting will occur.
Propane Conversion

If the unit is to be used with propane gas, convert the fireplace from natural gas as follows using the components supplied with this burner kit. For complete valve installation instructions, refer to the instruction book included in the SIT conversion kit.

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

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 must be shut off before proceeding with the conversion.

Conversion procedure

The burner assembly must be removed from the unit if previously installed.

1. Remove the 2 front screws holding the burner tray in place (Figure 18).

2. Gently lift up the burner tray while sliding it to the left to disengage the burner tube from the orifice. Then tip back to expose the orifice.

3. Using a 1/2" wrench, undo the natural gas burner orifice (Figure 19). Apply a small amount of pipe joint compound to the threads of the propane burner orifice to ensure a good seal, before screwing it into the fitting.

Figure 18: Removing burner tray screws.

Figure 19: Replacing orifice.
4. Loosen the primary air shutter screw (Figure 20), open shutter fully and re-tighten screw.

5. Remove the 2 screws holding the pilot assembly in place with a stubby screwdriver (Figure 21).

6. With a 7/16" wrench loosen the pilot head on the pilot assembly using a wrench to hold the bracket steady (Figure 23).

7. Slide the pilot adjustment band over and ensure that the hole in the orifice band is showing. Figure 24 shows the band in natural gas position. Figure 25 shows the band in propane gas position.

8. Re-attach the pilot assembly.

9. Fill out, and place the propane conversion label (Figure 26) in a place inside of the valve control box where it will not be effected by heat.
The air shutter on the burner inlet tube controls the primary combustion air. It is set to the closed position 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 27 for proper flame pattern.

Open primary air if the window 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.

NOTE: Proper air shutter setting is required. For Propane the primary shutter must be fully open. The flame should be just orange and “lazy”. It should NEVER be set to create sooting on internal parts and window glass.
# Replacement Parts

## Kit Contents:

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>#1</td>
<td>Tranquility Burner Kit</td>
<td>TC42.NG04C</td>
</tr>
<tr>
<td>#2</td>
<td>Pebble Assembly</td>
<td>TC42.9499</td>
</tr>
<tr>
<td>#3</td>
<td>Main Supply Tube</td>
<td>5019.223</td>
</tr>
<tr>
<td>#4</td>
<td>Pilot Tube</td>
<td>5019.225</td>
</tr>
<tr>
<td>#5</td>
<td>Pilot Assembly, Convertible</td>
<td>TCRP.5005025</td>
</tr>
<tr>
<td>#6</td>
<td>Orifice, Natural Gas (#25)</td>
<td>5022.12</td>
</tr>
<tr>
<td>#7</td>
<td>Propane Conversion Kit</td>
<td>TC42.LPCE01</td>
</tr>
<tr>
<td>#8</td>
<td>Sand</td>
<td>TC42.SAND34</td>
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*(NOT SHOWN)*

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*(WHEN ORDERING, INCLUDE PART NUMBER WITH DESCRIPTION)*

## Diagram:

1. **#1 Tranquility Burner Kit**
   - a. Tranquility Curb
   - b. 19 Port Cast Burner
   - c. Rock Pan
   - d. Line Cover, LT
   - e. Tranquility Leg
   - f. Floor Pan
   - g. Tapped 1/8-27 NPT
   - h. Line Cover, RT
   - i. Burner Inlet Tube
   - j. Curb Clamp

2. **#2 Pebble Assembly**
   - 2. Pebble Assemble

3. **#3 Main Supply Tube**
   - 3. Main Supply Tube

4. **#4 Pilot Tube**
   - 4. Pilot Tube

5. **#5 Pilot Assembly, Convertible**
   - 5. Pilot Assembly, Convertible
   - 6. Orifice NG #25
   - 7. Propane Conversion Kit
   - 8. Sand

6. **#6 Orifice, Natural Gas (#25)**

7. **#7 Propane Conversion Kit**
   - (not shown)

8. **#8 Sand**
   - (not shown)
For technical support, please contact your retailer.

Web site: www.townandcountryfireplaces.net
2975 Allenby Rd., Duncan, BC V9L 6V8