TC30
COUNTRY HOME BURNER KIT INSTRUCTIONS (NATURAL GAS ONLY)

PART# TC30.NG02DN
For TC30 Series D Fireplaces

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020317-16 TC30_NG02DN 5056.42902D
Burner/Grate Installation

1. Place the keyhole slots of the burner (Figure 3) over the two screws located on the firebox floor (Figure 2).
2. Slide the burner back to engage the screws in the small part of the keyhole slot and tighten screws (Figure 4).

3. Remove access cover to the valve control center from right side of firebox (Figure 5)
4. Attach the pilot and gas supply tubes to the bulk head fitting and tighten (Figure 6). Ensure the connections are gas tight.

5. Feed the ignition and sensor wires through the bulkhead plate to the interface module. Tuck the ignition and sensor wires below the supply tubes (Figure 7).
6. Attach the ignition and sensor wires to the Interface module as shown in Figure 8.

7. Reinstall the valve control center access panel (See Figure 5 on page 3).

A panel set must now be installed before the log grate can be installed. See Installation and Operating Instructions manual for details.
8. With a panel set installed, position the slots of the log grate securing brackets over the holes in the floor shield and secure with the two screws (Figure 9).

9. Attach rear deflector to rear of grate using the two screws provided (Figure 10).
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.

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.

Figure 11: Glowing 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 12 through 19.

**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.

Figure 12: First log placement.

Figure 13: 2nd log placement.
Figure 14: 3rd log placement.

Figure 15: 4th log placement.
Figure 16: 5th log placement.

Figure 17: 6th log placement.
Figure 18: 7th log placement.

Figure 19: Completed log placement.
Note: To test the gas pressure, turn off the gas supply before removing the blanking plug from the supply pressure test port or manifold pressure test port.

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

1. Remove the blanking plug from the pressure test port. The plug is located between the right side lintel and firebox side (Figure 20).

2. Thread the extension test fitting into the open test port (Figure 21)

3. Attach a pressure gauge onto the fitting.

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.

![Figure 20: Removing blanking plugs.](image)

![Figure 21: Attaching test extension.](image)

**Correct gas pressure requirement:**

<table>
<thead>
<tr>
<th></th>
<th>Supply Pressure</th>
<th>Natural Gas</th>
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<tbody>
<tr>
<td>Min. Pressure</td>
<td>5.0&quot; WC</td>
<td></td>
</tr>
<tr>
<td>(For purpose of input adjustment)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. Pressure</td>
<td>13.9&quot; WC</td>
<td></td>
</tr>
<tr>
<td>Manifold Pressure</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum</td>
<td>3.5&quot; WC</td>
<td></td>
</tr>
<tr>
<td>Minimum</td>
<td>1.6&quot; WC</td>
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</table>
The air shutter on the burner tube controls the primary combustion air to the gas burner and is preset 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 23 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: Proper air shutter setting is a must. The flame should be just orange and “lazy”. It should NEVER be set to create sooting on internal parts and glass.

To Adjust:

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.
**Replacement Parts**

(WHEN ORDERING, INCLUDE PART NUMBER WITH DESCRIPTION)

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DESCRIPTION</th>
<th>PART NO.</th>
<th>ITEM</th>
<th>DESCRIPTION</th>
<th>PART NO.</th>
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<td>#4</td>
<td>PILOT ASSEMBLY, CONVERTIBLE..... TCRP.5005025</td>
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<td>#2</td>
<td>COUNTRY HOME LOG SET .............. 5094.302027</td>
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<td>#5</td>
<td>MAIN SUPPLY TUBE.......................... 5019.223</td>
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<td>#3</td>
<td>ORIFICE, NATURAL GAS (#32).......... 5021.332.A</td>
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<td>#6</td>
<td>PILOT TUBE .................................. 5019.225</td>
<td></td>
</tr>
</tbody>
</table>

**KIT CONTENTS:**

- **#1** BURNER ASSEMBLY
  - 1a GRATE
  - 1b AIR DEFLECTOR
  - 1c BURNER TRAY
  - 1d PILOT SHIELD
  - 1e BLOCKER PLATE
  - 1f MANIFOLD
  - 1g 1/2 PIPE TO 1/2 TUBE CONNECTION
  - 1h PILOT BRACKET
  - 1i HEAT SHIELD
  - 1j HEAT SHIELD INSULATION

- **#2** 7 PCS LOG SET
- **#3** ORIFICE, NATURAL GAS (#32)
- **#4** PILOT ASSEMBLY, CONVERTIBLE
- **#5** MAIN SUPPLY TUBE
- **#6** PILOT TUBE
For technical support, please contact your retailer

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