

**INSTALLER: Leave this manual with the appliance.
CONSUMER: Retain this manual for future reference.**

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.



TOWN & COUNTRY
L U X U R Y F I R E P L A C E S

TCWS38 REFLECTIONS BURNER KIT INSTALLATION INSTRUCTIONS

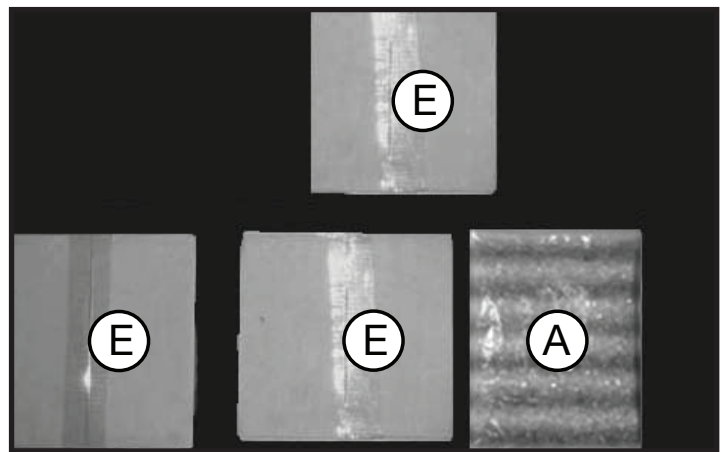
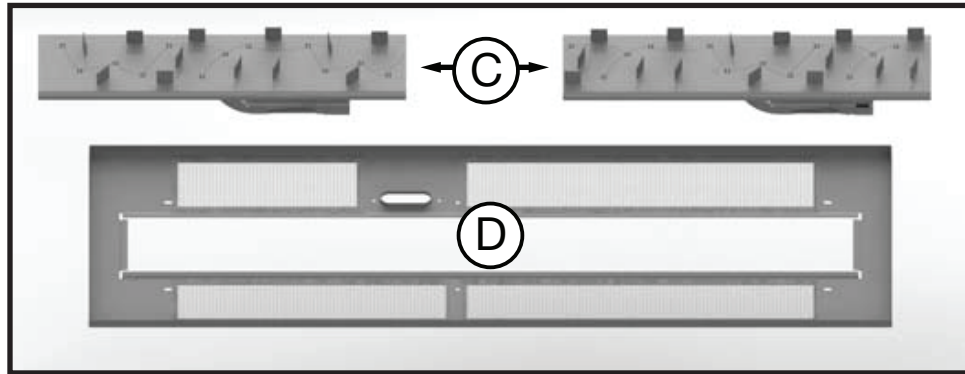


**PART# TCWS.38NG08D
For TCWS38 Series D
Fireplaces**



Visit www.townandcountryfireplaces.com for the most recent version of this manual

Contents of Package



- A** 1 5.0 lbs Glass Media
- B** 1 Hardware Pack
- C** 2 Burner assemblies
- D** 1 Burner tray assembly
- E** 3 Rock sets

Reflections Burner Installation



Figure 1: Burner tray installation.



Figure 2: Tray insert.

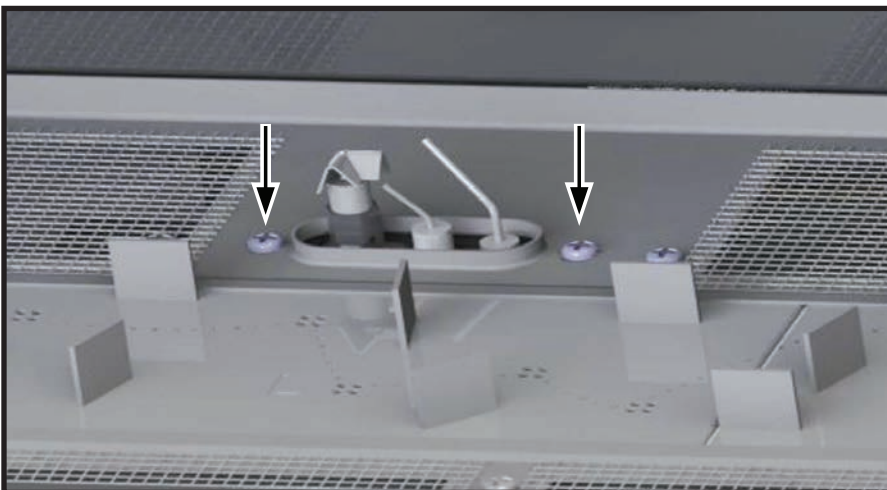


Figure 3: Tray over Pilot assembly.

If converting to propane see conversion instructions on page 8 before proceeding.

Install panels according to the TCWS.38D Installation and operating manual prior to burner installation (Page 31).

1. Install the right burner by tipping into location (Figure 1) and slipping the venturi tube over the orifice. Test for connection by lifting at a location pin on the right side of the burner.

Repeat with left burner.

NOTE: check air shutter for correct fuel setting before proceeding further. Both burners are the same. Fully closed for natural gas 1/8" (0.125)" open for LP.

CAUTION: The burners should be tightly butted up against each other at the center to ensure correct operation.

2. Tilt burner tray length-wise and insert into the firebox (Figure 2).
3. Attach pilot to burner tray (2 screws) (Figure 3).
4. Secure the burner tray to the support legs using six screws (Figure 4).



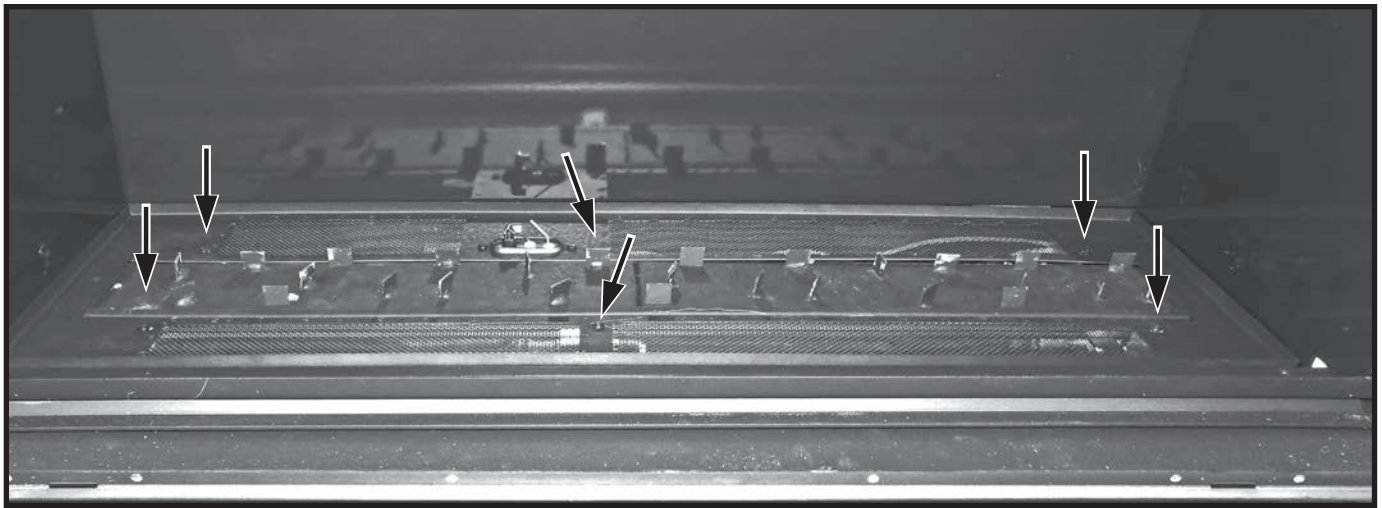


Figure 4: Securing burner tray with six screws.

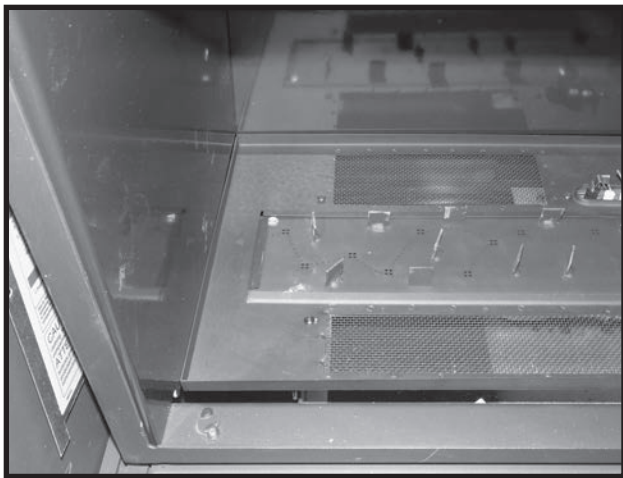


Figure 5: Burner tray before glass media is applied.

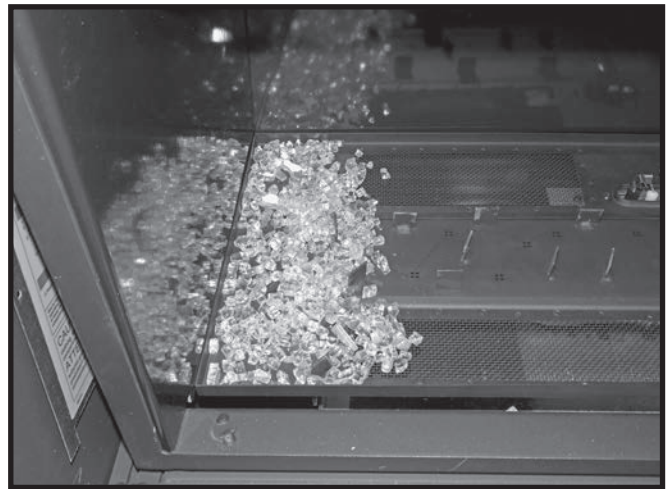


Figure 6: Applying glass media to tray.

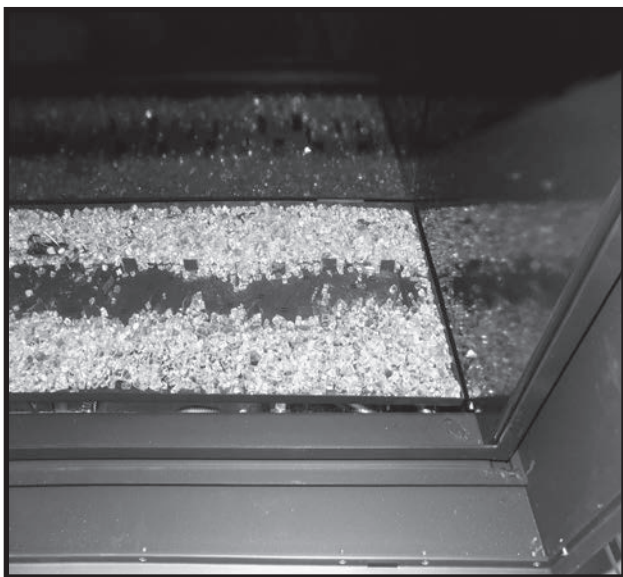


Figure 7: Clearing center of tray of glass media.

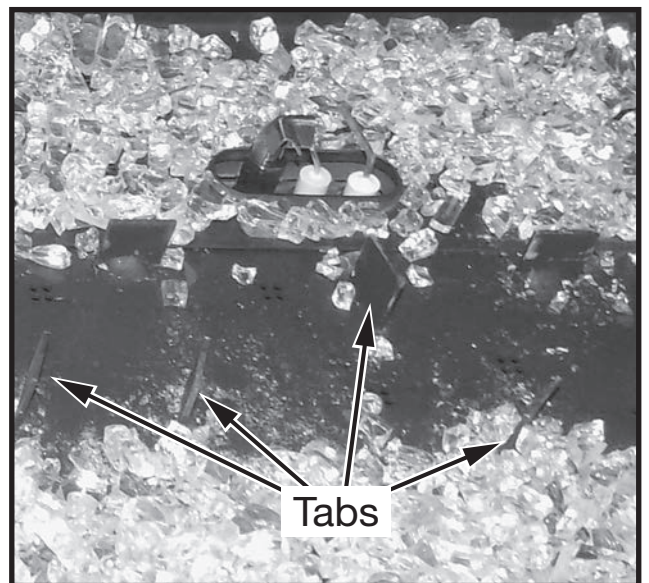


Figure 8: Tabs for rock placement.

NOTE: A light will aid aligning the holes in the tray with the leg.

5. Place glass media into the burner tray and spread evenly around but not on the burners or on top of the Pilot assembly (Figure 6 and Figure 7).



Figure 9: Markings on bottom of rocks.



Figure 10: Rock 'A'.

6. The burners have tabs which the rocks will fit onto (Figure 8). The rocks have slots (Figure 9) in them which will fit over top of the tabs

7. Place each rock as per the following photographs, start from the right hand side of the burner and ensure that the arrow on each rock points towards the front of the fireplace (Figure 8 to Figure 20).



Figure 11: Rock 'B'.



Figure 12: Rock 'C'.

Note: See "TCWS38 Reflections rock layout." on page 7 to see that there are 3 sets of rocks with one extra "A" rock.

8. There are 3 sets of rocks supplied. Repeat the sequence of placing the rocks two more times until the burner is covered.



Figure 13: Rock 'D'.

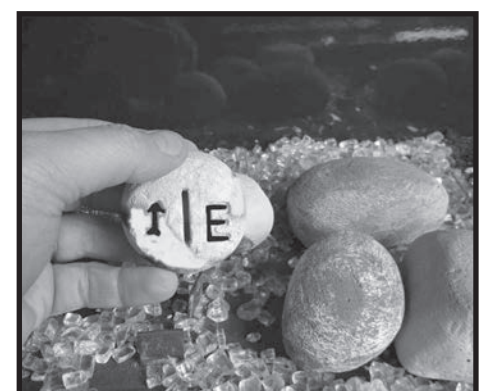


Figure 14: Rock 'E'.





Figure 15: Rock 'F'.



Figure 16: Rock 'G'.

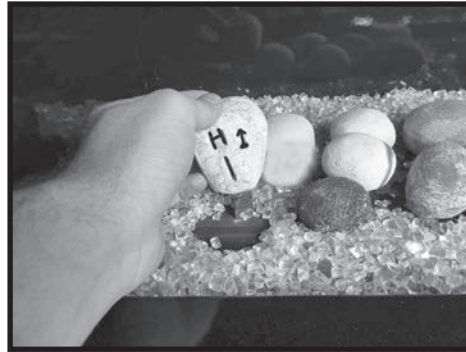


Figure 17: Rock 'H'.



Figure 18: Rock 'J'.

9. Place the remaining (A) rock on the left hand end of burner as shown in Figure 20.

10. Install front porcelain cover (wide edge towards the center of the fireplace) (Figure 21).

11. Finish by spreading the glass up to the rocks to hide the bottom of the burner tray (Figure 19)

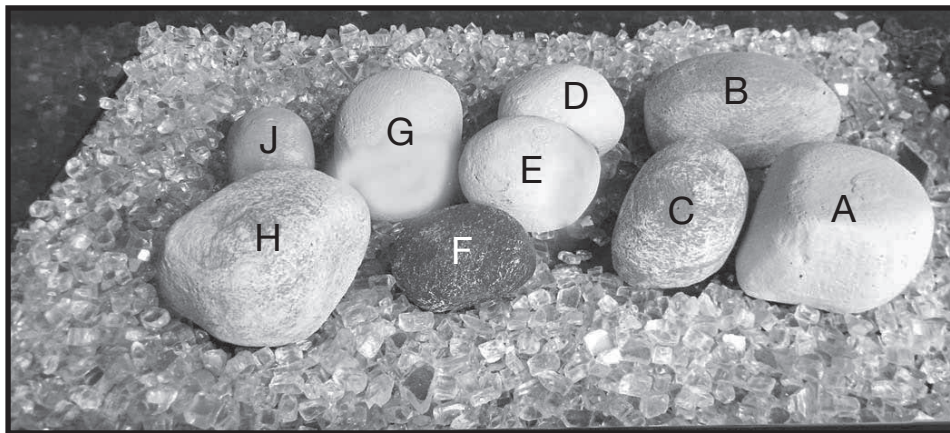


Figure 19: One of 3 complete rock sets.



Figure 20: 2nd 'A' Rock.

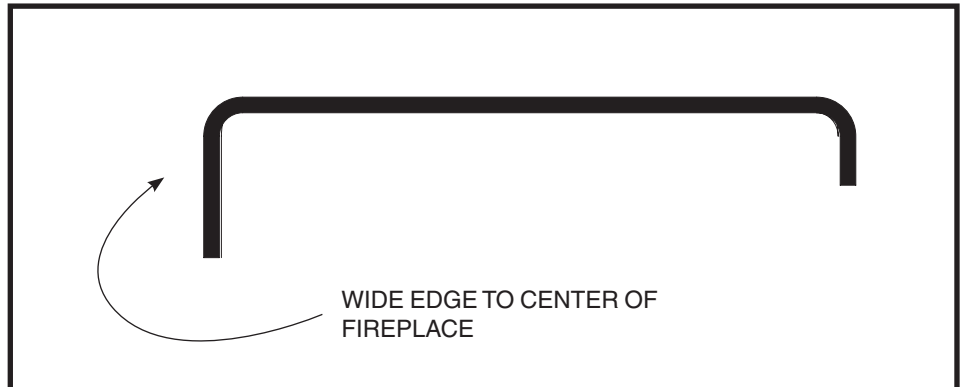


Figure 21: Porcelain cover.

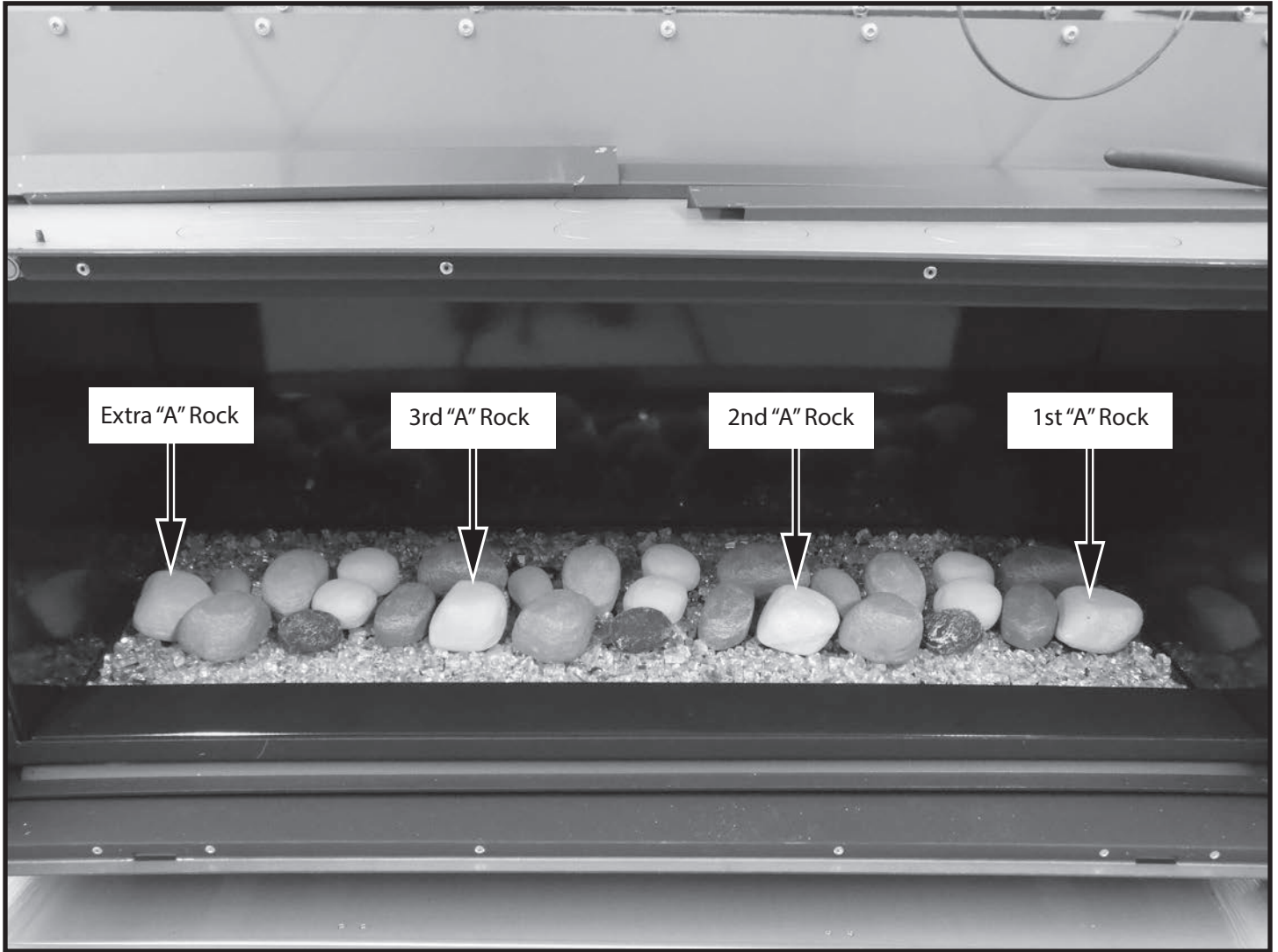


Figure 22: TCWS38 Reflections rock layout.

Propane Conversion

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

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

CAUTION

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

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.

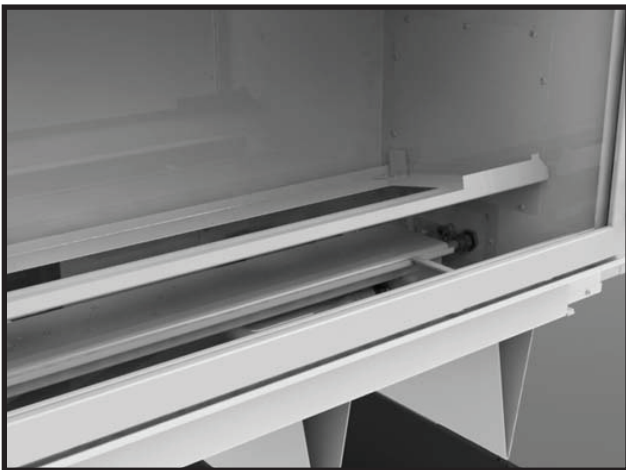


Figure 23: Burner tray removal.



Figure 24: Orifice removal.

1. If installed, remove the rocks and glass media from the burners.
2. If installed, remove the burner tray from the manifold brackets and pilot (Figure 23).
3. Remove burners
4. Using a 1/2" wrench, undo and remove the natural gas burner orifice (Figure 24).
5. Apply a small amount of pipe joint compound to the threads of the new propane burner orifice (marked LF) (Figure 25) to ensure a good seal, before screwing it into the fitting.



Figure 25: Propane orifice.

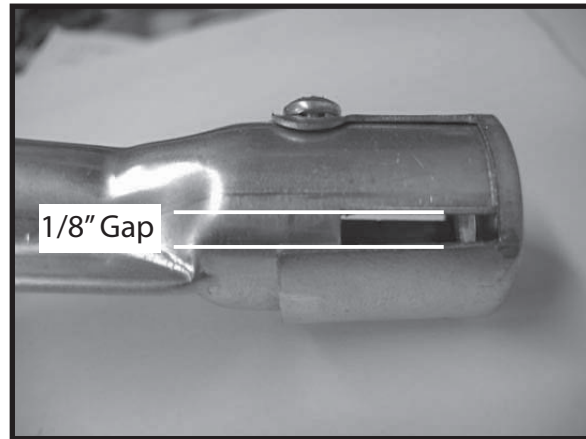


Figure 26: Gap in air shutter for propane.

6. Loosen the primary air shutter screw, open shutter to give a gap of 1/8" (0.125") and re-tighten (Figure 26). Repeat on other burner.
7. With a 7/16" wrench loosen the pilot head on the pilot assembly (Figure 27).
8. Slide the pilot adjustment band over and ensure that the hole in the orifice band is showing (Figure 29). Retighten pilot head.

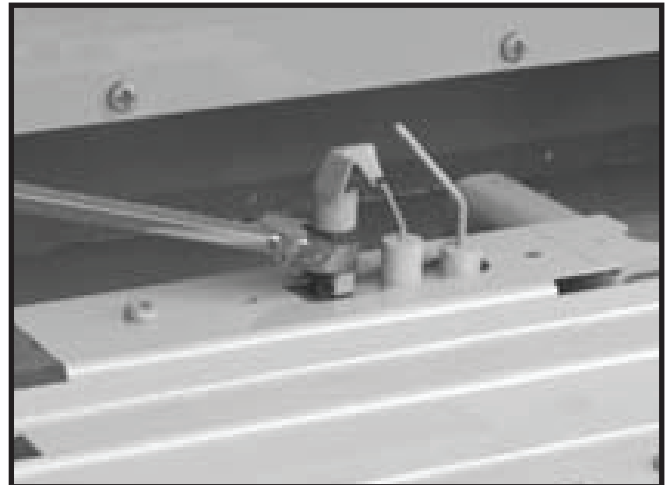


Figure 27: Loosening pilot head.

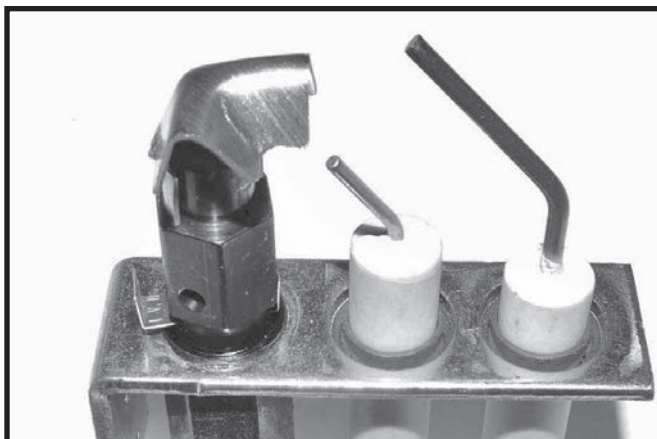


Figure 28: Pilot band in natural gas position.

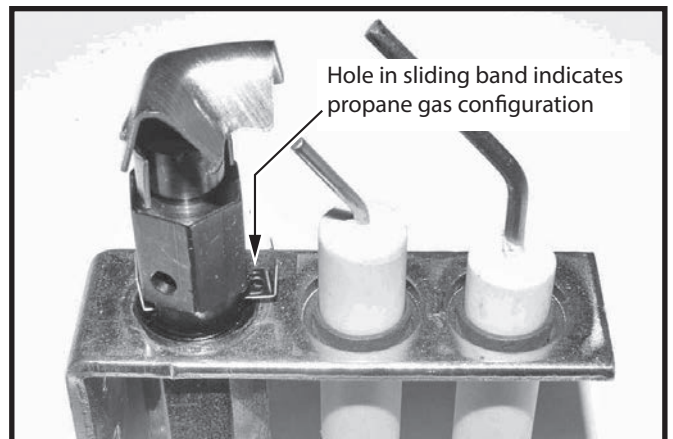


Figure 29: Pilot band in propane gas position.





Figure 30: Gas valve cover.

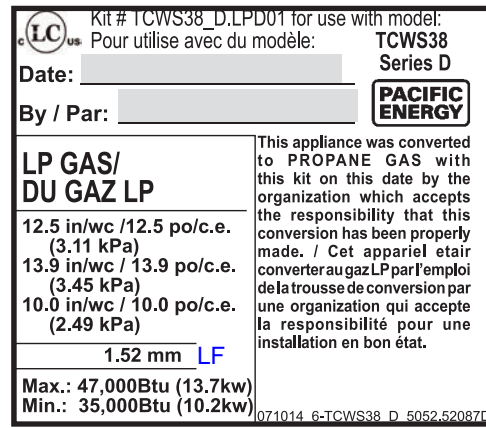


Figure 31: Propane conversion label.

9. Remove access panel (Figure 30) to gain access to the gas valve for propane conversion.
10. Complete the gas valve conversion from natural gas to propane gas according to the instructions included in the SIT propane gas conversion kit.
11. Once conversion is complete, fill out and place gas conversion label (Figure 31) to inside of control box where it will not be affected by the heat of the firebox.

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

WARNING: Both the control box shield and the access panel must be reinstalled after conversion/ installation or servicing has been completed. Failure to do so will cause overheating and premature failure of the control system.

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.

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



Figure 32: Removing pressure test plug.



Figure 33: Installing pressure test extension.

1. Remove the plug from the pressure test port using a 3/16" hex key. The plug is located between the right side lintel and firebox side (Figure 32).
2. Thread the extension test fitting into the open port (Figure 33).
3. Attach a pressure gauge onto the fitting.
4. When testing is complete shut off the gas, remove the fitting and replace the plug. Thread sealant will be required to ensure a gas tight connection.

Correct gas pressure requirement:

Supply Pressure	Natural Gas	Propane
Min. Pressure (For purpose of input adjustment)	5.0" WC	12.5" WC
Max. Pressure	13.9" WC	13.9" WC
Manifold Pressure		
Maximum	3.5" WC	10" WC
Minimum	1.6" WC	6.4" WC



Burner Flame Adjustment

The air shutter on the venturi tube controls the primary combustion air. It is set to the closed position at the factory for natural gas fuel. For LP See “Propane Conversion” on page 8. 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 34 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.



Figure 34: Example of desirable flame pattern.

NOTE: Proper air shutter setting is required.

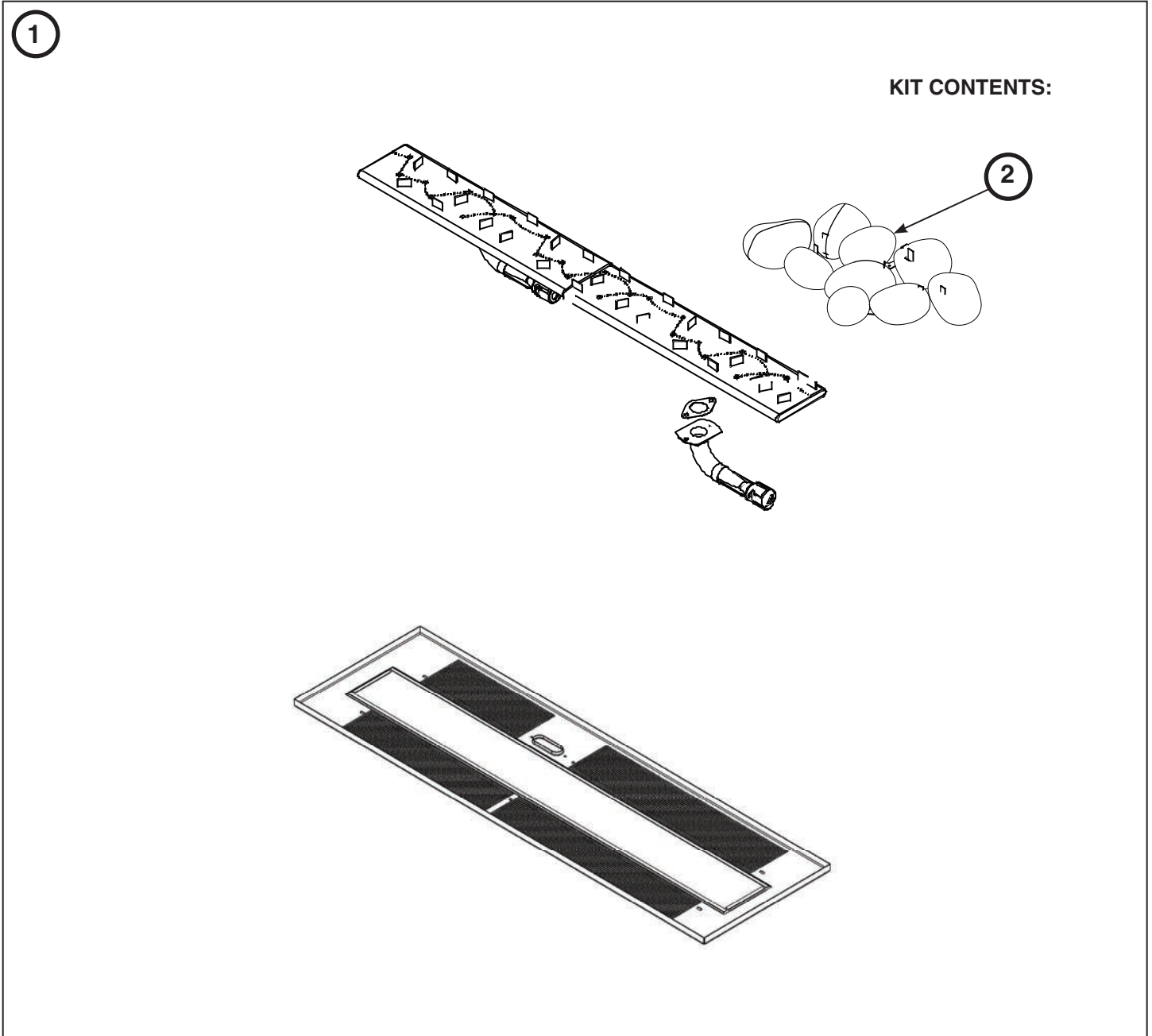
The flame should be just orange and “lazy”. It should NEVER be set to create sooting on internal parts and window glass.

Replacement Parts

(WHEN ORDERING, INCLUDE PART NUMBER WITH DESCRIPTION)

ITEM DESCRIPTION	PART NO.
#1 REFLECTIONS BURNER KIT	TCWS.38NG08D
#2 PEBBLE ASSEMBLY	5096.921 (3)
*#3 GLASS MEDIA	TCRP.501207
*#4 TRIM ROCK (for random placement)	5096.922
*#5 PROPANE CONVERSION KIT	TCWS.38DLPKIT

* NOT SHOWN





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