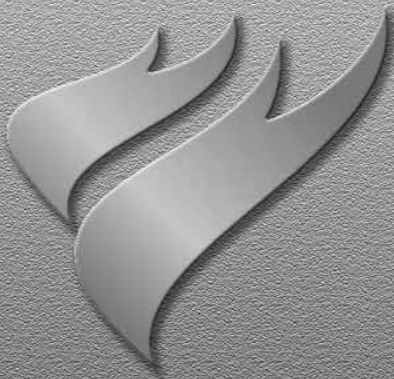


**INSTALLER: Leave this manual with the appliance.  
CONSUMER: Retain this manual for future reference.**

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**  
LUXURY FIREPLACES

# **TC54 TRANQUILITY BURNER KIT INSTRUCTIONS**



**SKU# 22150049  
For TC54 Series D  
Fireplaces**



# Package Contents

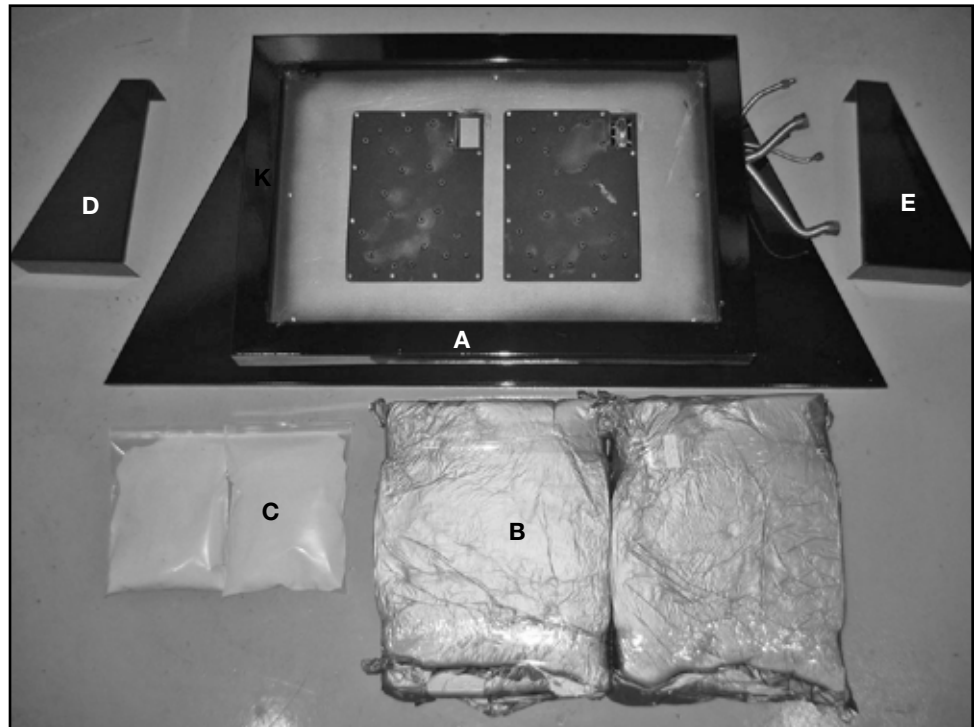


Figure 1: TC54 Tranquility burner kit contents.

- A BURNER ASSEMBLY
- B PEBBLE ASSEMBLY
- C 7lbs SAND
- D LINE COVER, LEFT
- E LINE COVER, RIGHT
- F PKG. TAPERED PLUGS (not shown)

# Tranquility Burner Installation

A panel set must be used in conjunction with the installation of the burner assembly. See Installation and Operating Instructions manual for details. Typically all panels except the right side should be installed prior to burner installation.

**NOTE:** Due to the size of this unit it is highly recommended that two persons be available during installation.

**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. Position line covers on the base shield under the burner tray, one on each side. (Figure 2)
2. Set the burner assembly into the firebox as shown to ease connection setup and right panel installation. (Figure 3)

**NOTE:**

If unit is to be converted to Propane, see Propane conversion instructions on page 11 before proceeding.

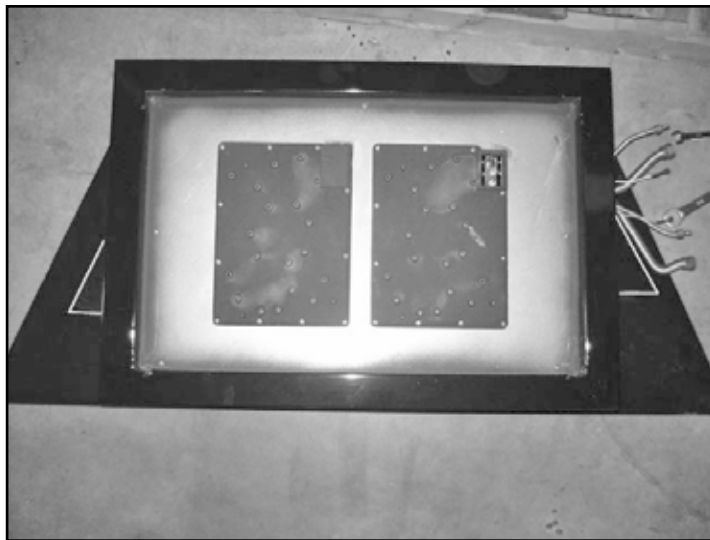


Figure 2: Line covers.

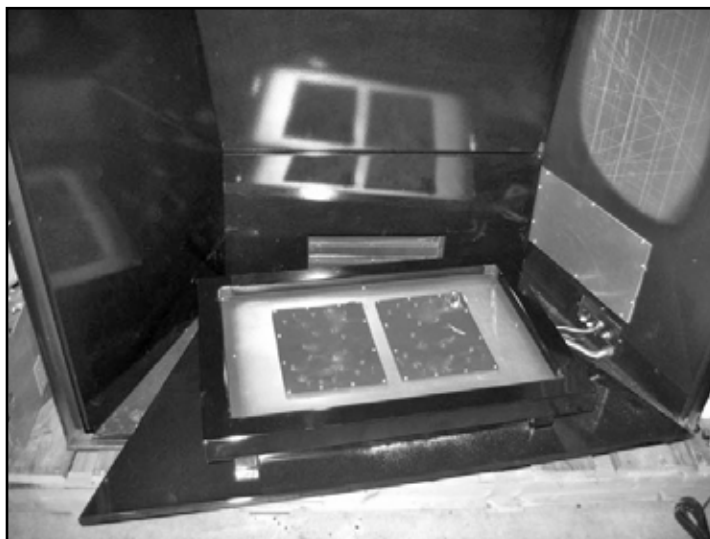


Figure 3: Initial burner placement.

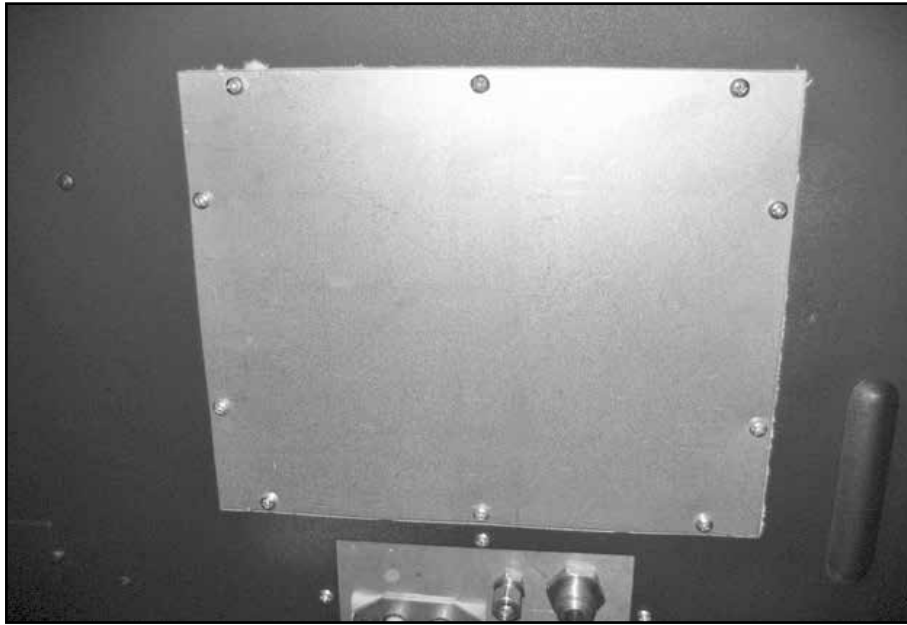


Figure 4: Access cover.

3. Remove access cover to the valve control center from the right side of the firebox (Figure 4).
4. Attach the center supply tube from the “T” and the pilot gas supply tube to the bulk head fitting and tighten (Figure 5).

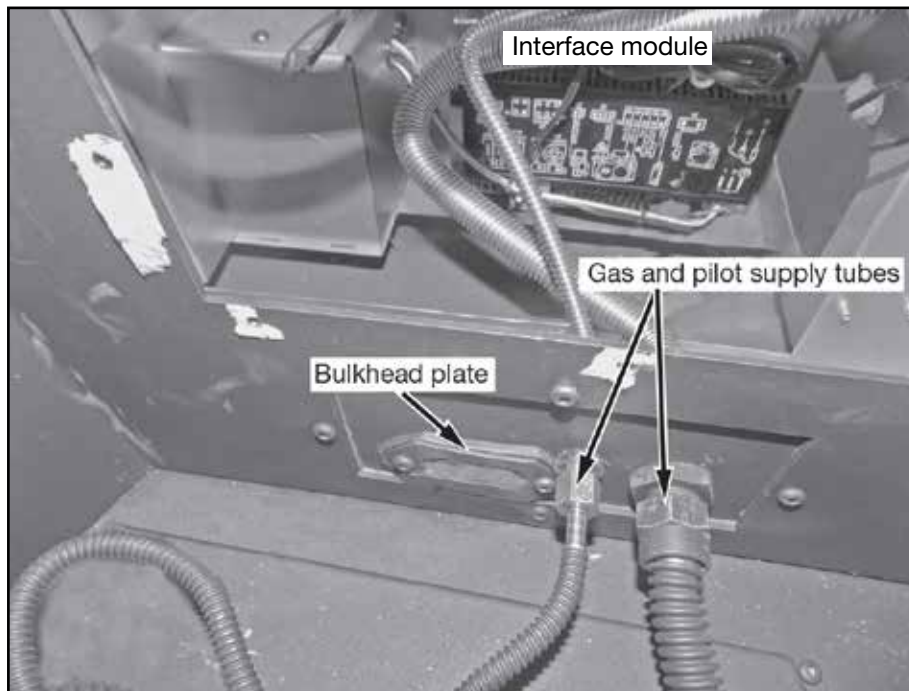


Figure 5: Attach gas supply tubes to bulkhead.

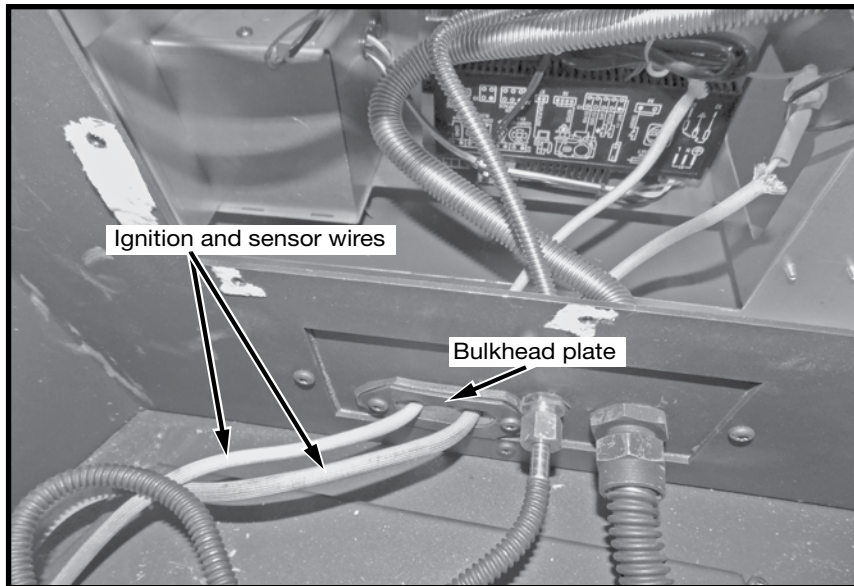


Figure 6: Routing ignition wires.

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

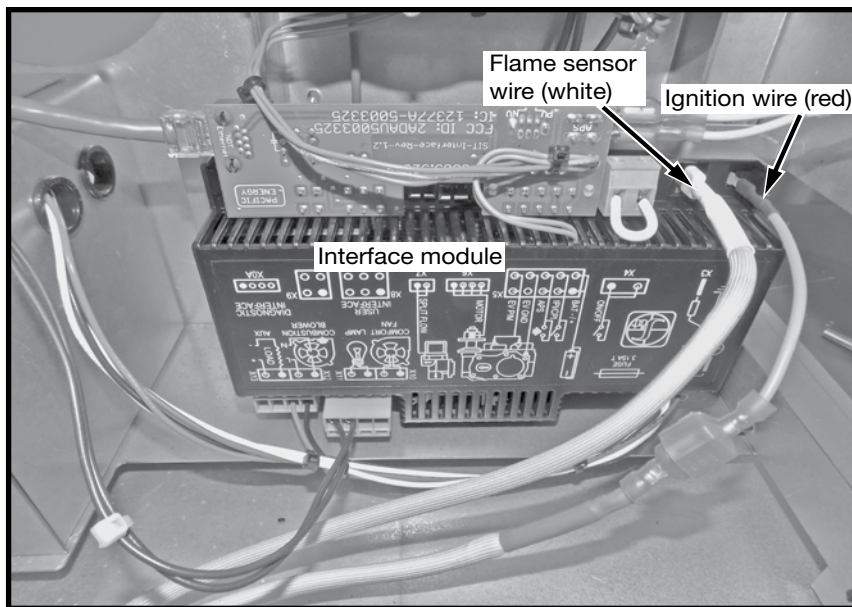


Figure 7: Interface module.

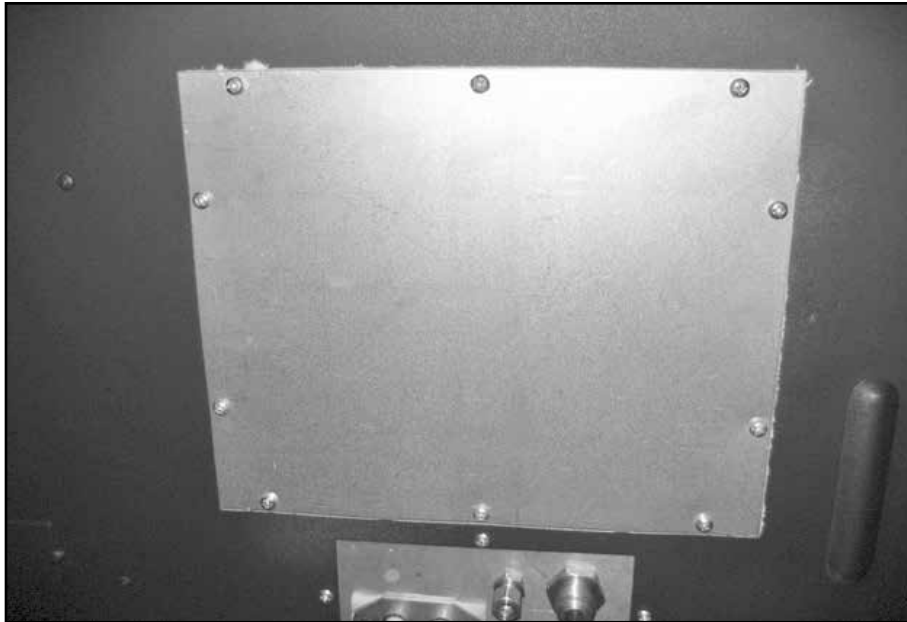


Figure 8: Access cover.

7. Re-install the access panel in the right side of the firebox (Figure 8).
8. Install right side panel as per panel installation instructions and finalize setting burner assembly into the unit (Figure 9).



Figure 9: Burner assembly installed.

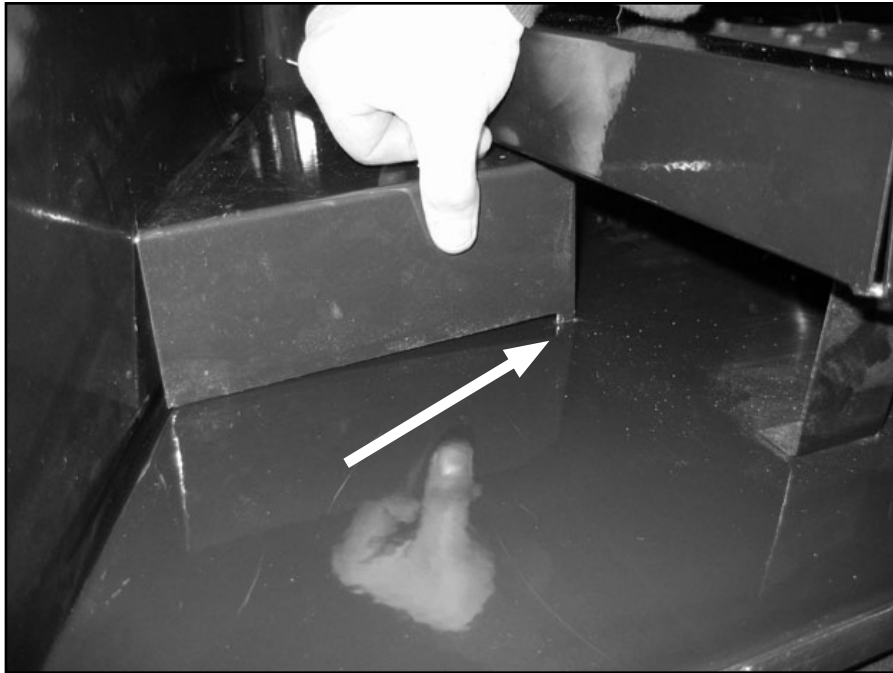


Figure 10: Line covers installed.

9. Slide the line covers out from under the burner tray and slip the tab into the slot in the assembly base. (Figure 10).

10. Place tapered plugs into all burner ports to prevent sand from entering the burners.(Figure 11).



Figure 11: Tapered plugs in ports.



**CAUTION: Before pouring sand ensure all connections and adjustments are made. Removing sand is very difficult.**

Figure 12: Sand placement.

11. Pour sand evenly over tray and burners using the entire contents. Use caution not to let sand enter pilot locations. (Figure 12).

12. Brush the sand smooth and gently blow excess sand from around burner ports before removing the tapered plugs.(Figure 13).

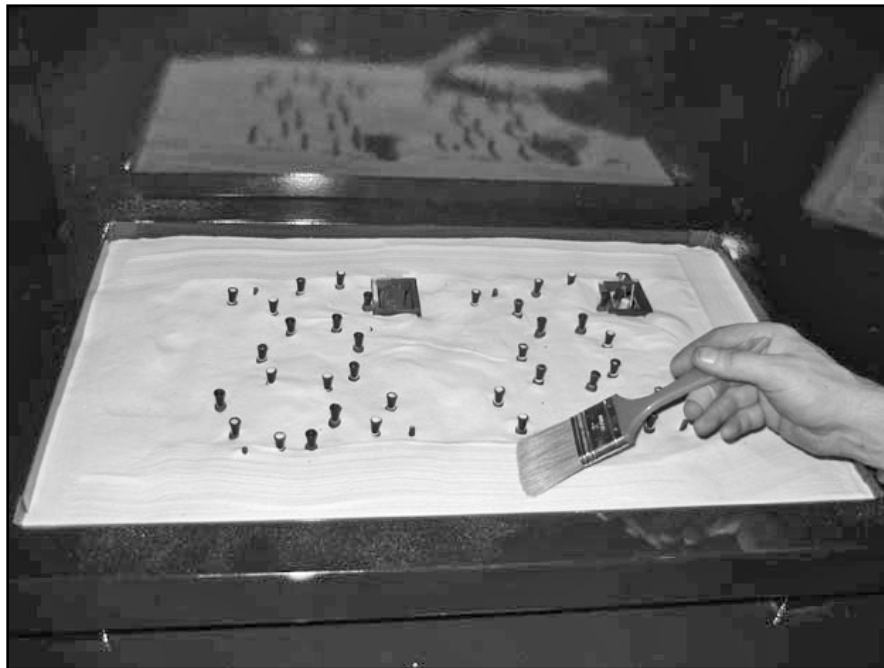


Figure 13: Brushing the sand.





Figure 14: Pebble set placement.

13. Remove tapered plugs. The pebble assemblies may now be installed. Lift the assembly carefully by the bottom and place on tray aligning with locator pins. The hollowed rock on the assembly covers the pilot.(Figure 14).

14. Place four trim rocks, approx. 2" dia., in spaces between the pebble assemblies to fill the gaps. Do not place rocks on top of the assemblies.(Figure 15 & 16).



Figure 15: Placing trim rocks.

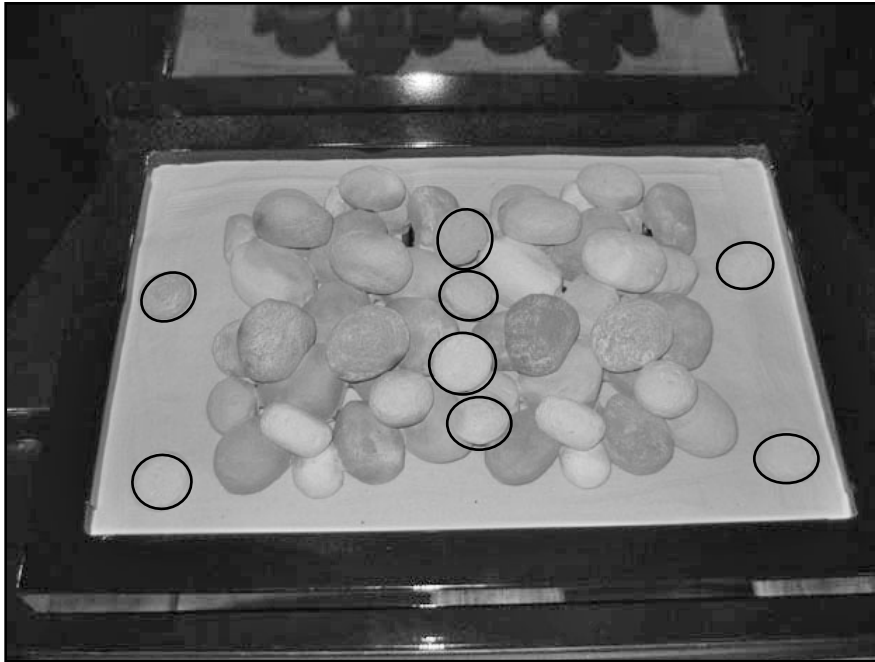


Figure 16: Placing trim rocks.

15. Place the remaining four trim rocks at desired locations around the pebble assemblies. Do not place rocks on top of the assemblies.(Figure 16).

# Propane 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.

## CAUTION

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

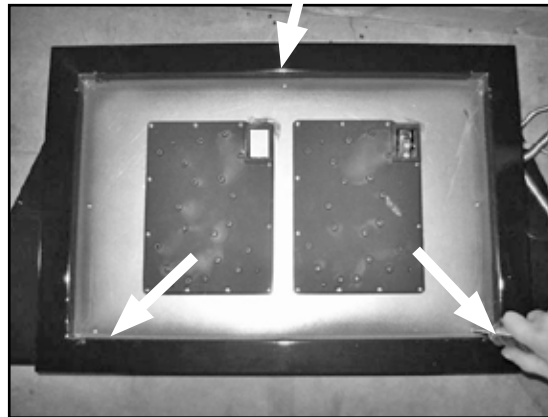


Figure 17: Remove screws.

## 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.
2. Remove three screws holding down the burner tray and lift off the tray sliding slightly forward to disengage from both orifices.
3. Using a 1/2" wrench, undo both natural gas burner orifices (marked "ND").(Figure 18)
4. Apply a small amount of pipe joint compound to the threads of the propane burner orifices marked "LD" to ensure a good seal, before screwing it into the manifold.

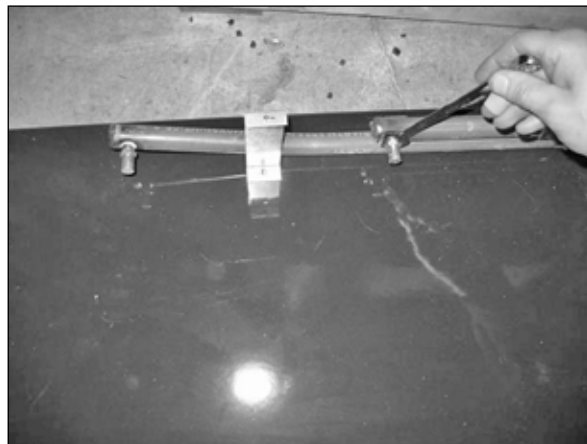


Figure 18: Remove NG orifices. Install LP orifices.

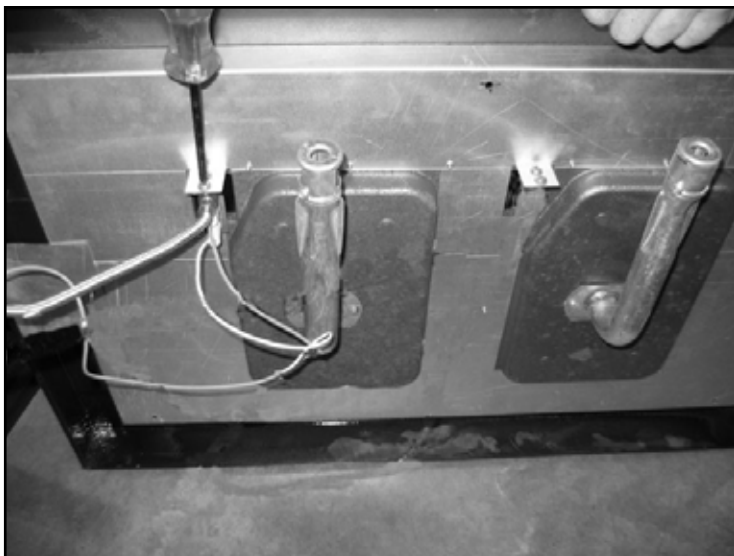




Figure 19: Adjust shutters and remove pilot.

This appliance was converted to propane gas		
		5052.52001-B conversion a été correctement faite. responsabilité que cette conversion a été ci-dessus accepte la l'entreprise désignée
Kit Number _____		
dd	mm	yy
Company _____		
Address The above accepts the responsibility that this conversion has been properly performed.		
Adresse _____		Firms _____
Address _____		a m j _____
5052.52001-B 		Numéro d'assemblage _____
Cet appareil a été converti en gaz propane		

5. Open primary air shutters fully. Remove the pilot from the burner. (Figure 19)
6. Slide the pilot adjustment band over and ensure that the hole in the orifice band is showing. (Figure 20 indicates NG position, Figure 21 indicates LP position)
7. Fill in the conversion label. Peel off the protective backing and apply the conversion label directly over the gas specifications on the rating label.



Figure 20: Band in NG position.

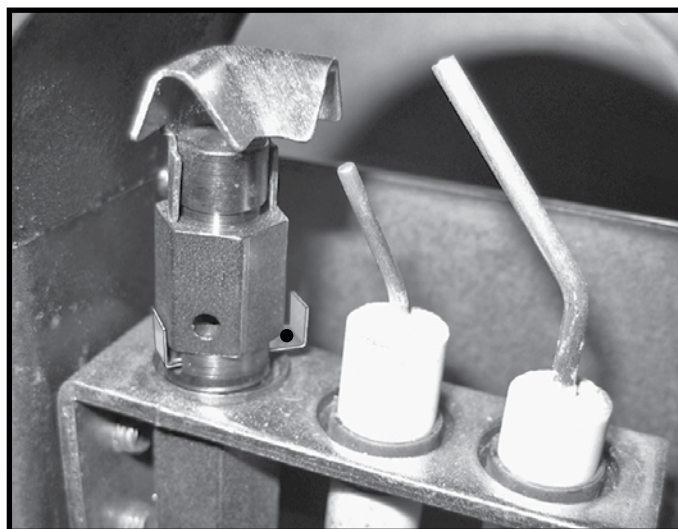


Figure 21: Band in LP position.

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

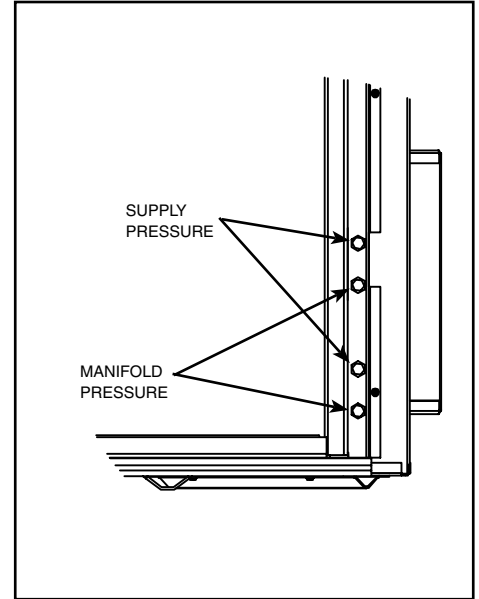
# Gas Pressure Check

**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 22: Remove plugs.



1. Remove the plug from the pressure test port. The plug is located between the right side lintel and firebox side. (Figure 22)
2. Thread the extension test fitting into the open test port. (Figure 23)
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 23: Pressure adjustment.

### Correct gas pressure requirement:

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

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## Burner Flame Adjustment

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The air shutter on the burner tube controls the primary combustion air to the gas burner. The shutter should be set to fully closed for natural gas or fully open for propane. See Figure 24 for proper flame pattern.



Figure 24: Flame appearance.

**The flame should be just orange and “lazy”.**

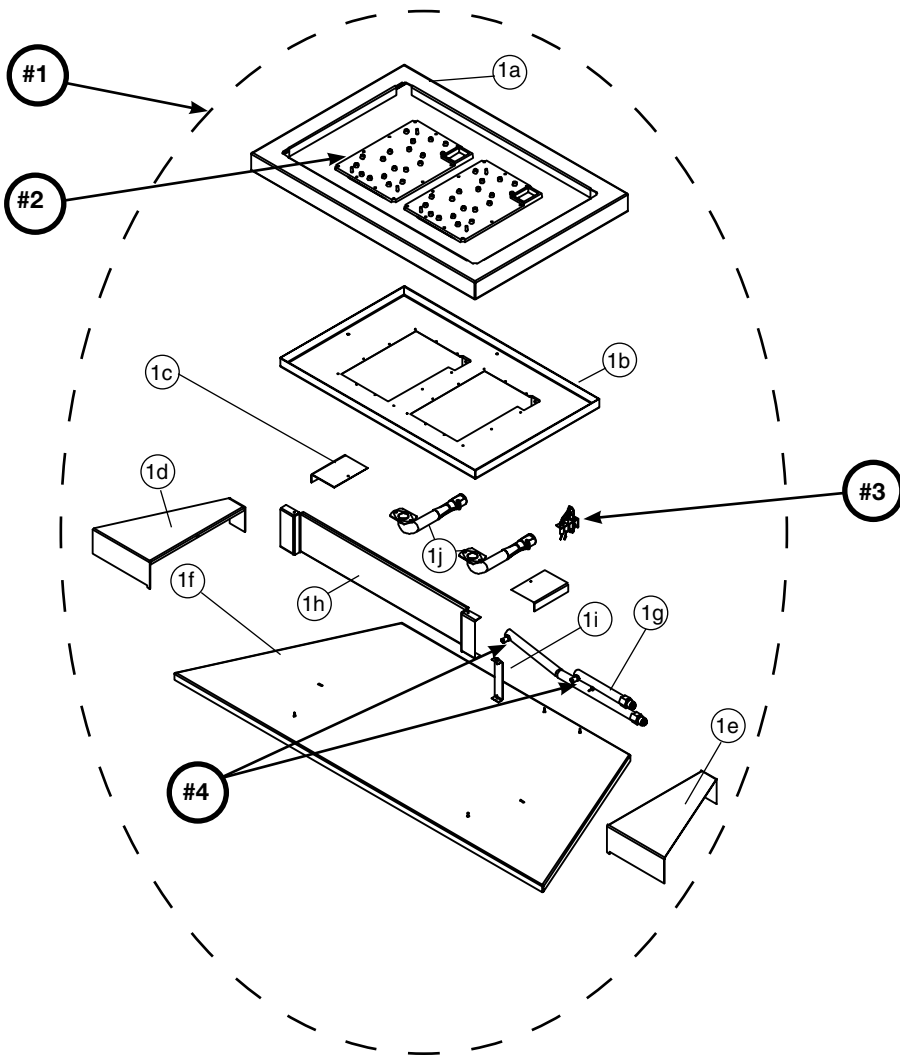
**It should NEVER be set to create sooting on internal parts and window glass.**

# Parts Diagram

(WHEN ORDERING, INCLUDE PART NUMBER WITH DESCRIPTION)

ITEM.....	DESCRIPTION .....	PART NO.
#1.....	TC54 TRANQUILITY BURNER KIT .....	22150049
#2.....	BURNER.....	80001212
#3.....	PILOT ASSEMBLY, CONVERTIBLE.....	80000525
#4.....	ORIFICE, NG marked "ND" (2 Required) .....	80002042
* #5.....	MANIFOLD SUPPLY TUBE .....	80001888
* #6.....	PEBBLE ASSEMBLY .....	80001183
* #7.....	PROPANE CONVERSION KIT.....	22180009
* #8.....	7lbs. SAND (2 Required).....	80000486

\* NOT SHOWN



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