

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

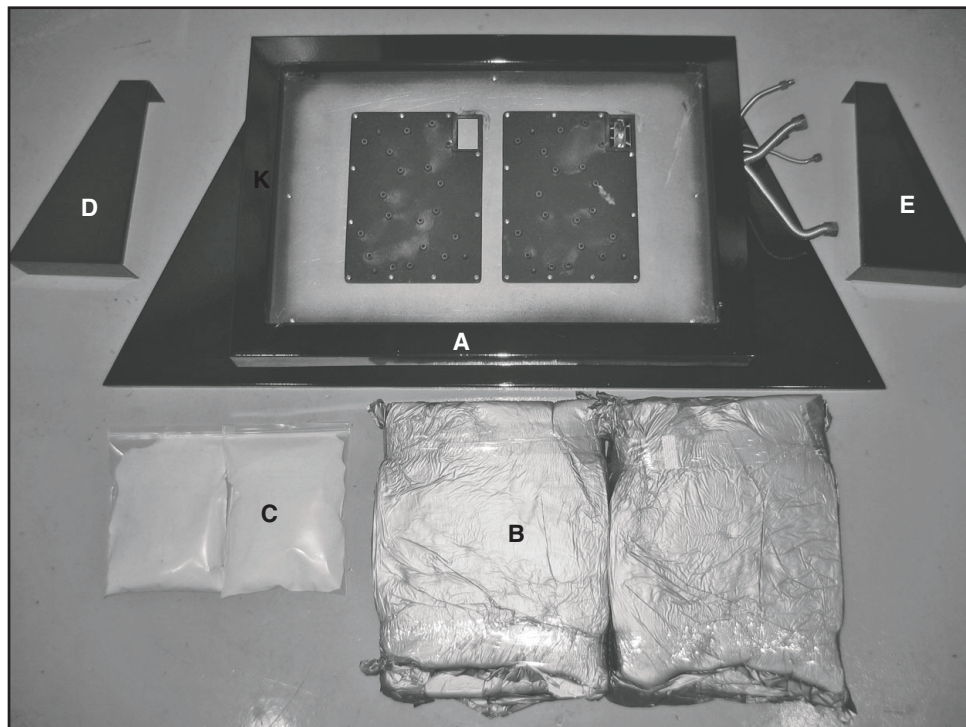
TC54 TRANQUILITY BURNER KIT INSTRUCTIONS



PART# TC54.NG04D
For TC54 Series D
Fireplaces



Contents of Package



- 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.

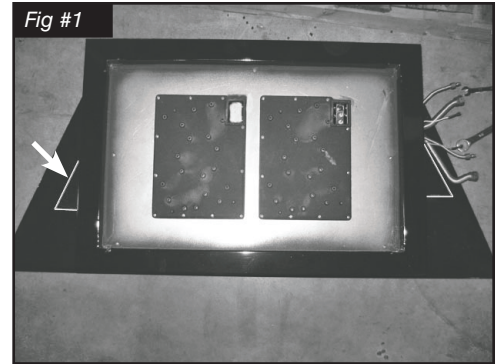
* Typically all panels except the right side should be installed prior to burner installation.

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. (Fig. #1)

LINE COVER PLACEMENT



NOTE:

If unit is to be converted to Propane, see Propane conversion instructions on page 7 before proceeding.

2. Set the burner assembly into the firebox as shown to ease connection setup and right panel installation. Connect all wires and fuel lines ensuring a gas tight connection. (Fig. #2)

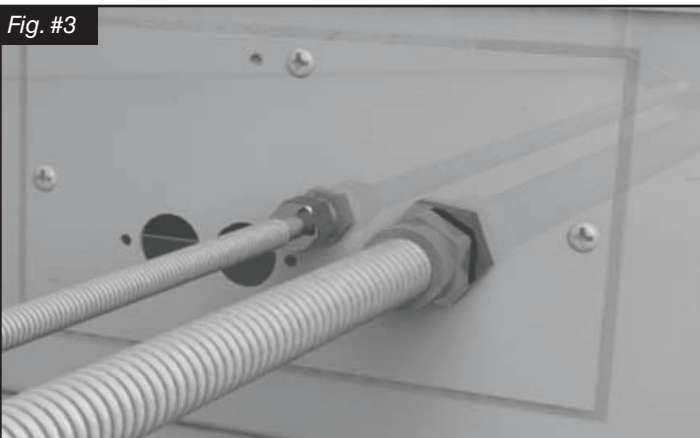
INITIAL BURNER PLACEMENT



NOTE: Pilot and manifold plumbing and wires are grouped and tied at the factory to ensure proper connection. Nylon zip ties must be removed after connections have been made, and prior to ignition.

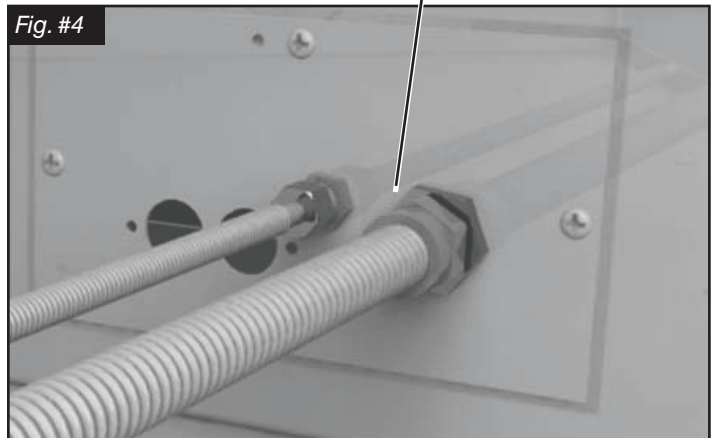
GAS CONNECTIONS

Fig. #3



3. Attach the manifold supply tube from the forward manifold to the front bulk head fitting and tighten. (Fig. # 3)

Fig. #4



4. Attach the pilot supply tube from the pilot to the front bulk head fitting and tighten. (Fig. # 4)

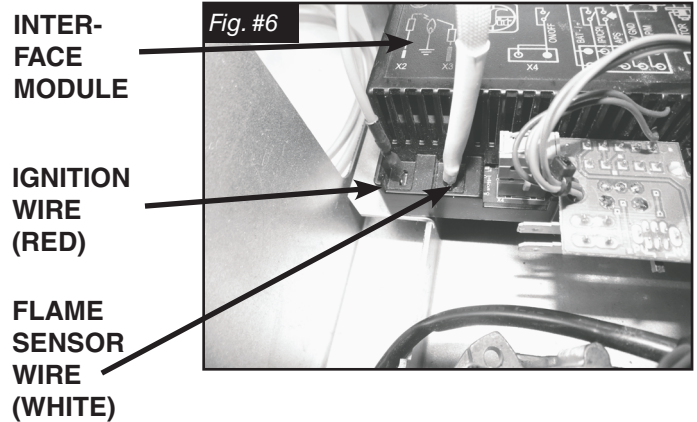
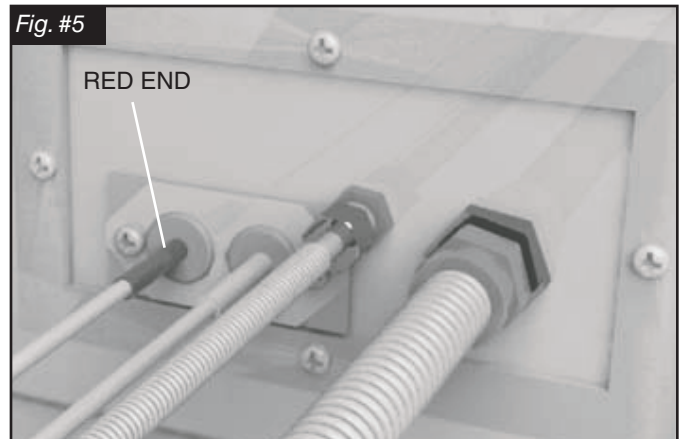
5. Remove access cover from side of firebox.

6. Secure the bulkhead plate and gasket to the firebox. (2 screws)
Attach the ignition and sensor wires to the "pigtail" wires from the control module on the front valve. Red end to the orange wire, white end to the white wire.

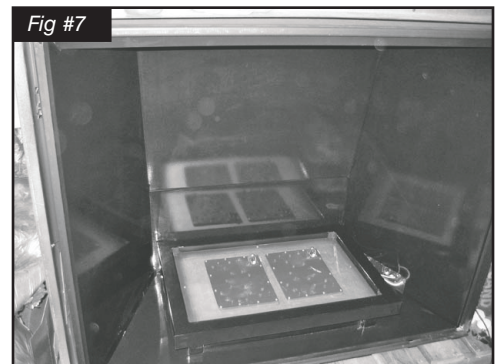
7. Repeat this process with the remaining manifold and the pilot assembly provided with the burner kit.

8) Attach the ignition and sensor wires to the module. (Fig.#6).

8. Install right side panel as per panel installation instructions and finalize setting burner assembly into the unit. (Fig. #7)



BURNER INSTALLED



9. Slide the line covers out from under the burner tray and slip the tab into the slot in the assembly base. (Fig. #8)

INSTALL LINE COVERS

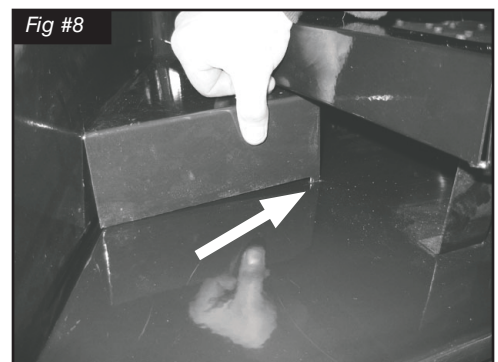
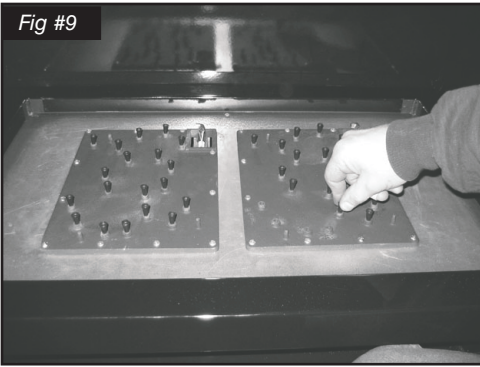


Fig #9



PLUGGING PORTS
WITH TAPER PLUGS

10. Place tapered plugs into all burner ports to prevent sand from entering the burners. (Fig. #9)

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

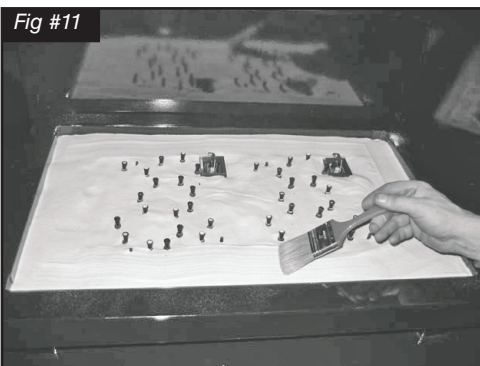
Fig #10



SAND PLACEMENT

11. Pour sand evenly over tray and burners using the entire contents. Use caution not to let sand enter pilot locations. (Fig. #10)

Fig #11



SAND FINISHING

12. Brush the sand smooth and gently blow excess sand from around burner ports before removing the tapered plugs. (Fig. #11)



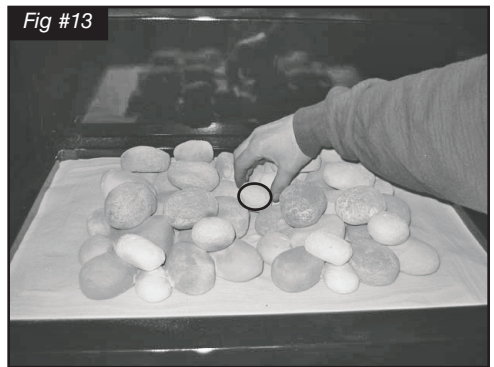
13. Remove tapered plugs. The pebble assemblies may now be installed.
Lift the assembly carefully by the bottom and place on tray aligning with locator pins. The hollowed rock on the assembly covers the pilot. (Fig. #12)

INSTALL PEBBLE
ASSEMBLY



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. (Fig. #13 and #14)

INSTALL 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. (Fig#14).

INSTALL TRIM ROCKS



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.

Kit # TC54_D.LPD for use with model: TC54 Pour utiliser avec du modèle: Series D	
Date: _____	PACIFIC ENERGY This appliance was converted to PROPANE GAS with this kit on this date by the organization which accepts the responsibility that this conversion has been properly made. / Cet appareil est converti au gaz LP par l'emploi de la trousses de conversion par une organisation qui accepte la responsabilité pour une installation en bon état.
By / Par: _____	
LP GAS/ DU GAZ LP 12.5 in/wc / 12.5 po/c.e. (3.11 kPa) 13.9 in/wc / 13.9 po/c.e. (3.45 kPa) 10.0 in/wc / 10.0 po/c.e. (2.74 kPa) 2.26 mm Max.: 84,000Btu (24.6kw) Min.: 66,000Btu (19.3kw)	
071014 6-TC54 D 5052.520862D	

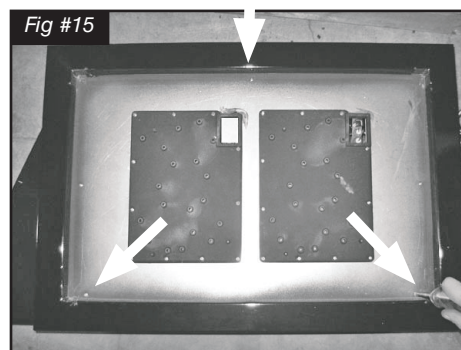
CONVERSION LABEL (5052.520862D)

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

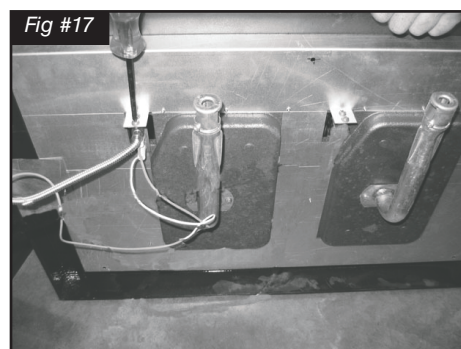
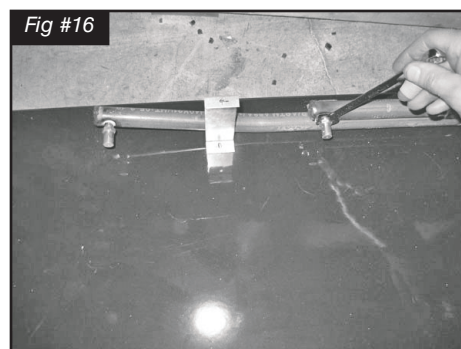
Note:

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

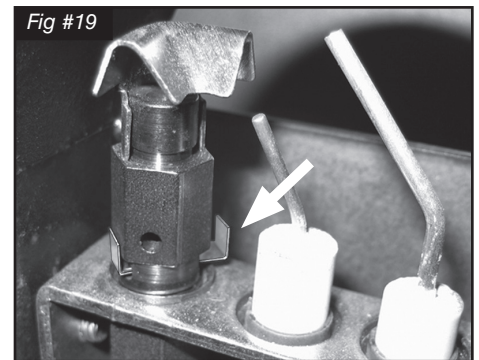
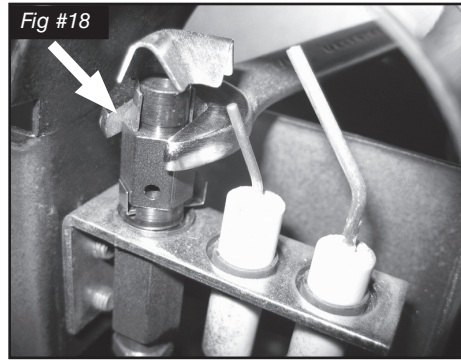
1. Ensure the burner, pilot and gas supply are turned off, and the appliance has cooled.
2. Remove three screws holding down the burner tray and lift off the tray sliding slightly forward to disengage from both orifices. (Fig. #15)
3. Using a 1/2" wrench, remove both natural gas burner orifices (marked #29). (Fig. #16)
4. Apply a small amount of pipe joint compound to the threads of the 2.26 mm propane burner orifices to ensure a good seal, before screwing it into the fitting.
5. Open primary air shutters fully. Remove the pilots from the burners. (Fig. #17)



FRONT



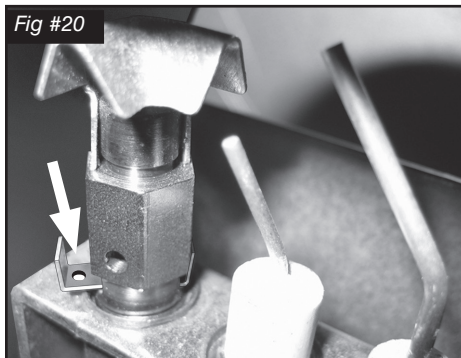
6. With a 7/16" wrench loosen the pilot head on the pilot assembly. (Fig. #18)
Hold the base of the pilot assembly secure with a wrench.



7. Slide the pilot adjustment band over and ensure that the hole in the orifice band is showing. (Fig. #19 indicates NG position, Fig. #20 indicates LP position)

Retighten the pilot head.

Replace the pilots and burner tray. Ensure the burner inlets engage both burner orifices.



ADD NAME

ADD DATE

Fill in the date and the name of the person who performed the conversion in the white area on the conversion label. Peel off the protective backing and apply the conversion label directly over the gas specifications on the rating label

Kit # TC54_D.LPD for use with model: TC54 Pour utiliser avec du modèle: TC54 Series D	
Date: _____ By / Par: _____	PACIFIC ENERGY
LP GAS/ DU GAZ LP	
12.5 in/wc / 12.5 po/c.e. (3.11 kPa) 13.9 in/wc / 13.9 po/c.e. (3.45 kPa) 10.0 in/wc / 10.0 po/c.e. (2.74 kPa)	
2.26 mm	
Max.: 84,000Btu (24.6kw) Min.: 66,000Btu (19.3kw)	
071014 6-TC54 D 5052.520862D	

8. Attach the access panel to the side of the firebox with the previously removed screws.

Note: Gasket must be installed with access panel.

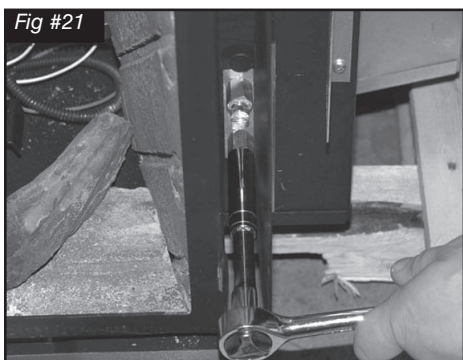
For complete valve installation instructions, refer to the instruction book included in the SIT conversion kit.

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.

Fig #21



1. Remove the plug from the pressure test port using a 7/16" socket and extension. The plug is located between the right side lintel and firebox side. (Fig. #21)

Fig #27

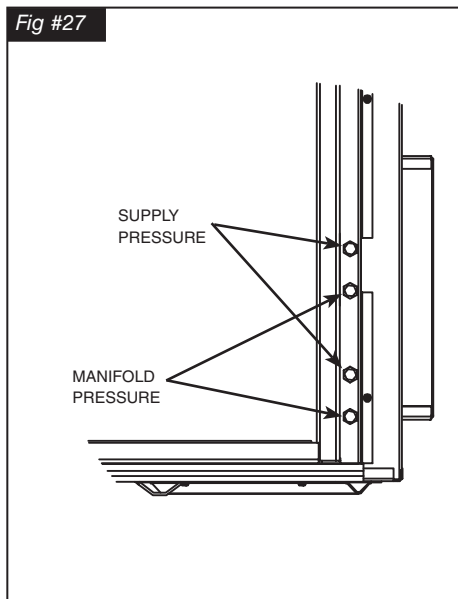
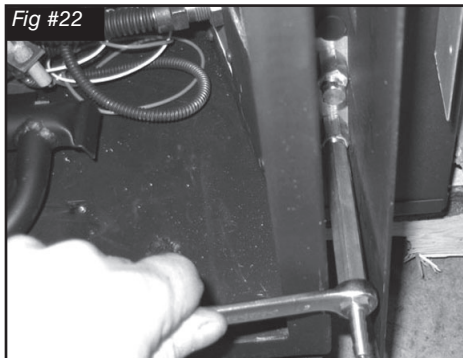


Fig #22



2. Thread the extension test fitting into the open test port. (Fig. #22)
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.

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 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 Fig. #23 for proper flame pattern.

The flame should be just orange and “lazy”.

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

Fig #23

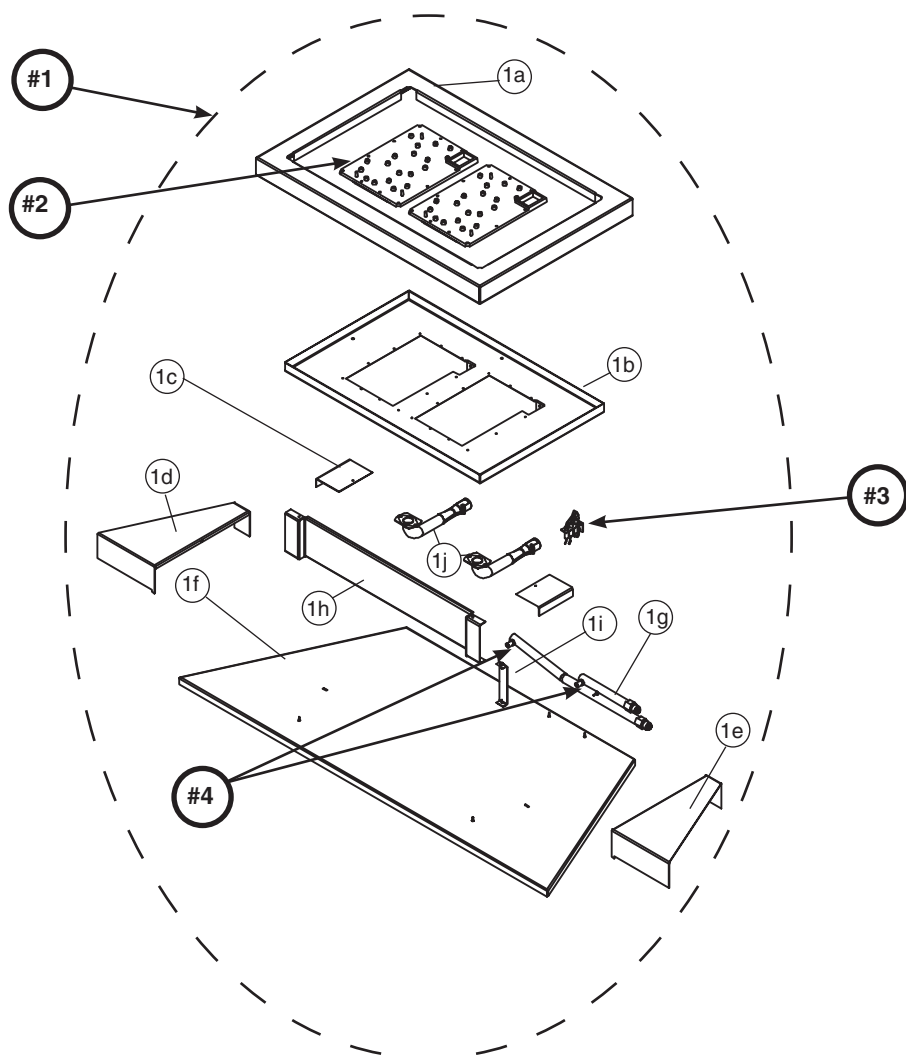


TC54 Tranquility Burner Replacement Parts

(WHEN ORDERING, INCLUDE PART NUMBER WITH DESCRIPTION)

ITEM	DESCRIPTION	PART NO.
#1.....	TC54 TRANQUILITY BURNER KIT	TC54.NG04.C
#2.....	BURNER.....	TCRP.50118399
#3.....	PILOT ASSEMBLY, CONVERTIBLE	TCCV.5005025B
#4.....	ORIFICE, NG (#29) (2 Required).....	5022.135
* #5.....	MANIFOLD SUPPLY TUBE.....	5019.223
* #6.....	PEBBLE ASSEMBLY	TC54.9499
* #7.....	PROPANE CONVERSION KIT.....	TC54.LPCE01
* #8.....	7lbs. SAND (2 Required).....	TC42.SAND34

* NOT SHOWN



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