

INSTALLATION AND OPERATION INSTRUCTIONS

24" NATURAL GAS CONVERSION KIT (TWO BURNERS)



A liquid propane tank, not connected for use with this gas barbecue, shall not be stored in the vicinity of this or any other appliance.

Installation and service must be performed by a: Qualified technician, service agency, or the gas supplier.

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!!! WARNING !!!

If the information in this manual is not followed exactly, a fire or explosion may result causing property damage, personal injury or loss of life. Read the StraubelStone Gas Barbecue instruction manual before attempting installation of this conversion kit. These instructions should be left with the homeowner for future reference.

Your StraubelStone 24" Natural Gas Two Burner Conversion Kit, is designed and intended for use, with StraubelStone 24", Two Burner Gas Barbecues, in areas where Natural Gas units are not available.

GENERAL INFORMATION

These instructions are intended as a general guide and do not supersede national or local codes in any way. Authorities having jurisdiction should be consulted before installation.

Installation and provision for combustion and ventilation air must conform with the *National Fuel Gas Code, ANSI Z223.1*, or *CAN/CGA-B149.1, Natural Gas Installation Code*, or *CAN/CGA-B149.2, Propane Installation Code*. This barbecue has been tested to, and complies with, *ANSI Z21.58* and *CAN/CGA 1.6, STANDARDS FOR OUTDOOR COOKING GAS APPLIANCES*.

Do not store combustible materials or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

!!! WARNING !!!

Gas supply system must be installed in accordance with the U.S. National Fuel Gas Code.

This appliance and its individual shut off valve must be disconnected from the gas supply piping system during any system pressure test in excess of ½ PSI (3.5 KPA).

Use a system manual shut off valve to shut off the gas supply to this gas appliance before continuing with installation procedures.



GAS-FIRED OUTDOOR COOKING APPLIANCE IN ACCORDANCE WITH THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) STANDARD FOR OUTDOOR COOKING GAS APPLIANCES Z21.58-1995 83EK

!!! WARNING !!!

For Natural Gas models, with Side Grill applications, both Barbecue and Side Grill must be converted to Natural Gas. Call the StraubelStone Customer Service Center for information on how to convert the Side Grill for Natural Gas applications.

WHAT TO DO IF YOU SMELL GAS:

- ✓ Shut off gas supply to the appliance.
- ✓ Extinguish any open flames.
- ✓ Open barbecue lid.
- ✓ If odor continues, immediately call your gas supplier. Follow the gas supplier's instructions.
- ✓ If you cannot reach your gas supplier, call the fire department.

SHIPPING AND PACKING LIST

CONVERSION KIT CARTON CONTAINS:

- 1- Two Burner, 24" Natural Gas Valve Manifold - with orifices

!!! IMPORTANT !!!

Before attempting installation of this Natural Gas Conversion Kit, refer to the Natural Gas Application section of the StraubelStone Gas Barbecue Instruction Manual.

INSTALLATION PROCEDURES

!!! WARNING !!!

TURN OFF THE GAS SUPPLY!

DO NOT attempt to install this Natural Gas Conversion Kit while the barbecue is in operation or is hot.

GAS VALVE MANIFOLD ASSEMBLY

It is necessary to dis-assemble the LP gas valve manifold, to perform Natural Gas Conversions. The following instructions are for qualified technicians only.

- 1- TURN OFF THE GAS SUPPLY!
- 2- **NEVER** attempt any maintenance operation while the appliance is in operation or is HOT!
- 3- **For LP units:** Disconnect the TYPE 1 - LP TANK CONNECTOR by turning the fitting in a counter-clockwise direction. Remove LP gas cylinder from pedestal. (For Steelman Barbecue Carts, remove regulator and hose assembly.)
- 4- Remove burner control knobs by gripping firmly and pulling away from control plate.
- 5- Using a #2 Phillips screw driver, remove the four (4) control plate mounting screws.
- 6- Carefully, pull the control plate away from pedestal face. This will expose the back of the control plate and the LP gas valve manifold. (For Steelman Barbecue Carts, remove burner assembly. See Burner Assembly in the StraubelStone Steelman Manual.)
- 7- Remove the igniter wires from the back of the push button igniter (mark the locations of the wires). Set it aside.
- 8- Using a 7/16" nut driver, socket, or end wrench, remove the 7/16" flange nuts from the base of the LP gas valve manifold. (This may be accomplished by reaching through the access door of the pedestal, or for Steelman Barbecue Carts, by reaching beneath the face of the barbecue cart.)

- 9- Carefully, pull the LP gas valve manifold away from the burners and set it aside. (For LP units, regulator and hose assembly will pull through the panel hole) (For Steelman Barbecue Carts, carefully push the gas valve manifold away from the cart face until the valve stems clear the holes. Rotate the gas manifold downward, and pull clear of the cart face.)
- 10- Remove Natural Gas Valve Manifold from shipping carton. (The Natural Gas Valve Manifold is ready for installation from the factory. No assembly or modification is necessary)

TO REINSTALL NATURAL GAS VALVE MANIFOLD:
Reverse the foregoing order of operations.

NOTE: Some adjustment of the primary air mixer openings, at the entrance to each burner, may be necessary. Refer to the Maintenance Section of the StraubelStone Gas Barbecue Instruction Manual for flame adjustment, and primary air mixture. (Air mixture is pre-set at the factory for gas conditions at sea level)

Disassembly of the barbecue is required to adjust the air mixer openings. (See Burner Assembly - Air Mixture Adjustment in the StraubelStone Gas Barbecue Instruction Manual)

STRAUBELSTONE 24" NATURAL GAS BARBECUE SPECIFICATIONS

NATURAL GAS - RATED PRESSURE - 7.0" W.C.

MINIMUM GAS PRESSURE	MAXIMUM GAS PRESSURE	ORIFICE SIZE	BTU/HR INLET
7.0" W.C.	10.5" W.C.	#52	30,000
With optional Side Grill		#52	45,000

HIGH ALTITUDE DERATE

In the U.S.A., input BTU shall be de-rated 4% (1 orifice size) per 1000 ft. for altitudes above 2000 ft.. In Canada, input BTU shall be de-rated 10% (2 orifice sizes) at altitudes from 2000 ft. to 4500 ft..

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