SABER®

Natural Gas Conversion Kit
Model: A00AA5417

If you have questions or need assistance during assembly, please call 1-888-94-SABER
1-888-947-2237

For support and to register your grill, please visit us at
www.sabergrills.com

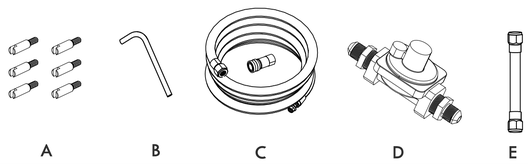
Tools required for assembly:
- Orifice Driving Tool - Provided
- (2) Adjustable Wrenches - Not Provided
- Standard #2 Phillips Screwdriver - Not Provided
- Flat Blade Screwdriver - Not Provided

To Installer/Assembler: Leave this manual with consumer.
To Consumer: Keep this manual for future reference.

PARTS LIST

Note: Illustrations are not to scale.

Key	Qty.	Description	Part No.
A	6	Control Knob Stop Pins - NG	80025432
B	1	Orifice Driving Tool	3499941
C	1	10' Natural Gas Hose	3498865
D	1	Natural Gas Regulator	80020274
E	1	8" Hose	3499671



SAFETY SYMBOLS

The symbols and boxes shown below explain what each heading means. Read and follow all of the messages found throughout the manual.

DANGER

DANGER: Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

WARNING

WARNING: Indicates an potentially hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

CAUTION: Indicates a potentially hazardous situation or unsafe practice which, if not avoided, may result in minor or moderate injury.

DANGER

If you smell gas:
- Shut off gas to appliance.
- Extinguish any open flame.
- Open lid.
- If odor continues, keep away from the appliance and immediately call your gas supplier or your fire department.

WARNING

1. **Do not store or use gasoline or other flammable liquids or vapors in the vicinity of this or any other appliance.**
2. **An LP tank not connected for use shall not be stored in the vicinity of this or any other appliance.**

WARNING

Do not attempt to repair or alter this conversion kit for any assumed defect. Any modification to this assembly will void your warranty and create the risk of a gas leak and fire. Use only authorized replacement parts supplied by manufacturer.

WARNING

CALIFORNIA PROPOSITION 65
1. Combustion by-products produced when using this product contain chemicals known to the State of California to cause cancer, birth defects, and other reproductive harm.
2. This product contains chemicals, including lead and lead compounds, known to the State of California to cause cancer, birth defects or other reproductive harm.
Wash your hands after handling this product.

WARNING

1. Read and follow all Safety, Assembly and Use and Care Instructions in this guide before assembling and cooking with this grill.
2. Failure to follow all instructions in this Use and Care Guide may lead to fire or explosion, which could result in property damage, personal injury or death.

CAUTION

1. Some parts may contain sharp edges, especially as noted in these instructions.
2. Wear protective gloves if necessary.
3. For residential use only. Do not use for commercial cooking.

USE AND CARE

Natural Gas Connections and Service Regulators Above 1/2 psi.

Prior to 1998, all residential gas service regulators were set with an outlet pressure of 7 inches water column.

In the 1998 edition of NFPA 54, the National Fuel Gas Code, a change was made allowing service regulators of 2 and 5 psi.

With this change it was also required that an in line regulator be connected between the service regulator and the appliance regulator if the 2 or 5 psi system is used. This additional regulator is not supplied with the product.

It is possible for a consumer, making the connection themselves, or a plumber, not checking, to tap into a 2 or 5 psi line. If a pressure of 2 psi or greater is supplied to the appliance regulator on certain grills it will shut down and not deliver any gas to the grill. The included quick disconnect socket and hose should not be used at pressures above 1/2 psi.

If the quick disconnect socket, hose, and grill are properly connected and still not getting gas, delivery pressure needs to be verified. If pressure is greater than 1/2 psi, make sure that an in line regulator is present.

Once the grill has been over-pressured, the regulator may or may not have been damaged. The best practice is to replace the regulator.

WARNING

Do not use hard metal piping of any kind to connect manifold on this grill to natural gas source. Use only hose supplied in this kit to connect to manifold. Using hard metal piping or convoluted metal tubing is an unsafe practice. Movement of the grill can cause breakage of metal pipe or damage to the manifold.

MAIN BURNER CONVERSION

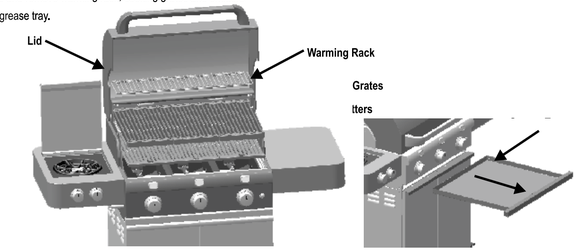
Step 1

NOTE: Your grill may differ from illustrations shown. This manual covers all cabinet style SABER® grills.

First, make sure all control knobs are in the **OFF** position, LP tank valve is closed, and tank is disconnected from regulator and removed from grill.

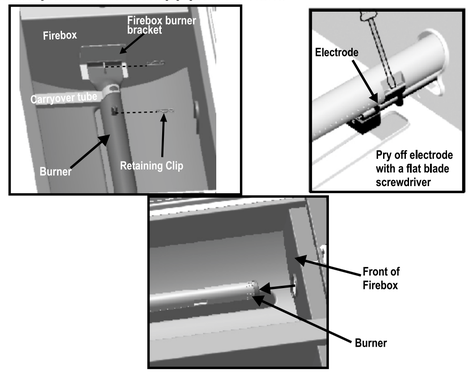
Next, open lid and remove warming rack, cooking grates and emitters.

Remove the grease tray.



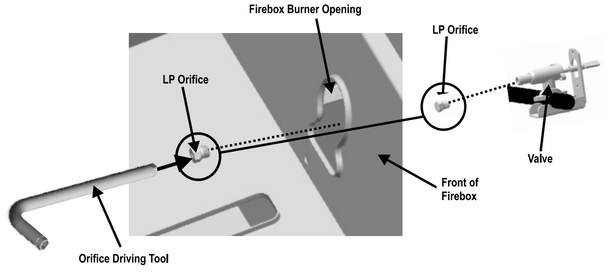
Step 2

Remove retaining clip and remove carryover tubes.
Remove retaining clips at back of burners to detach burners from firebox burner brackets.
Remove electrode from tube burner by prying off with a flat blade screwdriver.
Lift back of burner while sliding burner out of firebox, disengaging burners from valves.



Step 3

Insert orifice driving tool into firebox burner openings and unscrew (counterclockwise) LP orifices from ends of valves. Save removed LP orifices for converting back to LP tank gas.
These grill valves are designed to work with natural gas once LP orifices are removed.

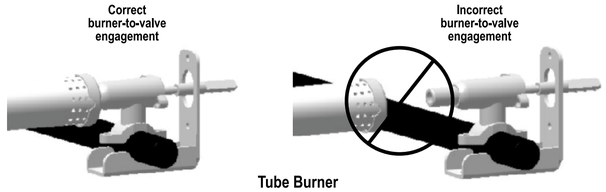


Step 4

Replace electrodes on to tube burners. Reference illustration Step 2.

Insert tube burners into firebox burner holes over valves with ignitor assembly downward, making sure tube burner engages valve properly. See diagram below.

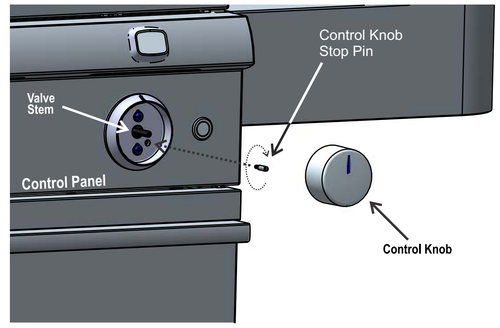
Secure tube burners to burner brackets with previously removed retaining clips. Replace carryover tubes and secure with retaining clips previously removed. Reference illustration Step 2.



Tube Burner

Step 5

Pull the Control Knob off of the valve stem.
Install 1 Control Knob Stop Pin into the control panel bezel.
Carefully align the Control Knob to the Valve Stem and press back into place.
Repeat for the remaining control knobs.

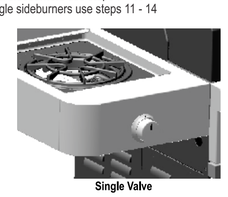


Step 6

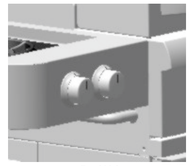
Reinstall emitters, cooking grates, and warming rack, reference step 1 for installation..

SIDEBURNER CONVERSION

Saber® Grills have two types of sideburners, a single valve and Dual valve.
For Dual sideburners use steps 7 - 10
For Single sideburners use steps 11 - 14



Single Valve



Dual Valve

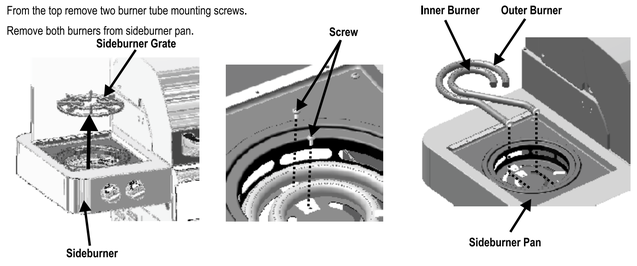
DUAL VALVE SIDEBURNER STEPS

Step 7

Open sideburner lid and remove the sideburner grate.

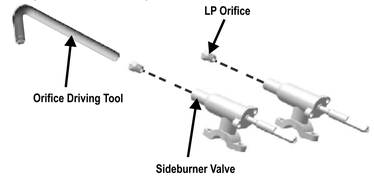
From the top remove two burner tube mounting screws.

Remove both burners from sideburner pan.



Step 8

Using the orifice driving tool, unscrew (counterclockwise) the LP orifice from the end of each sideburner valve. Save removed LP orifices and orifice driving tool for converting back to LP.
These grill valves are designed to work with natural gas once LP orifices are removed.



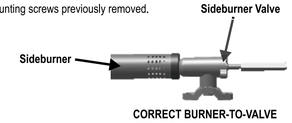
Step 9

Reference Step 7 illustrations for re-installation.

Return both sideburner tubes to sideburner pan. Make sure burners engage sideburner valves. See illustration below for correct burner-to-valve engagement.

Secure both sideburners tubes to sideburner pan with two mounting screws previously removed.

Place Sideburner Grate onto Sideburner Pan.



CORRECT BURNER-TO-VALVE ENGAGEMENT

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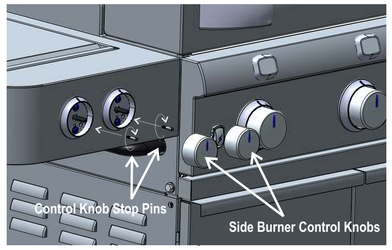
Step 10

Pull one Side Burner Control Knob off of the valve stem.
Install 1 Control Knob Stop Pin into the control panel bezel.
Carefully align the Side Burner Control Knob to the Valve Stem and press back into place.
Repeat for the 2nd Side Burner control knob.



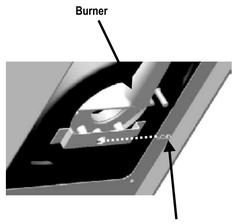
SINGLE VALVE SIDEBURNER STEPS

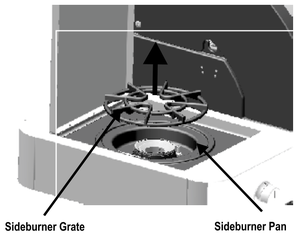
Step 11

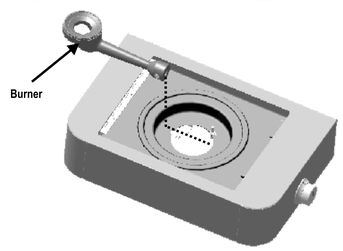
Open sideburner lid and remove the sideburner grate.

From beneath sideburner pan remove retaining clip.

Remove burner from sideburner pan.

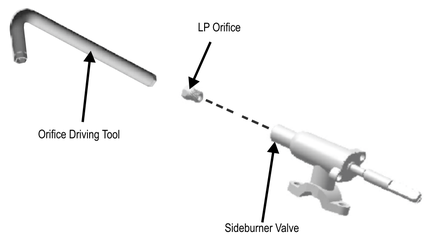






Step 12

Using the orifice driving tool, unscrew (counterclockwise) the LP orifice from the end of sideburner valve. Save removed LP orifice and orifice driving tool for converting back to LP.
This grill valve is designed to work with natural gas once LP orifice is removed.



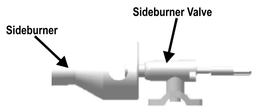
Step 13

Reference Step 11 illustration for re-installation.

Return sideburner to sideburner pan. Make sure burner engages sideburner valve. See illustration below for correct burner-to-valve engagement.

Secure sideburner to sideburner pan with retaining clip previously removed.

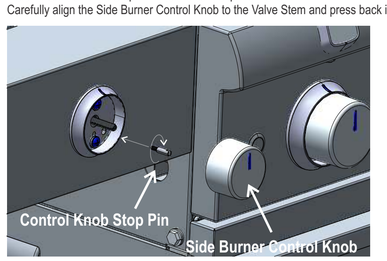
Place sideburner grate onto sideburner pan.



CORRECT BURNER-TO-VALVE ENGAGEMENT

Step 14

Pull the Side Burner Control Knob off of the valve stem.
Install 1 Control Knob Stop Pin into the control panel bezel.
Carefully align the Side Burner Control Knob to the Valve Stem and press back into place.



NATURAL GAS HOSE CONVERSION

Step 15

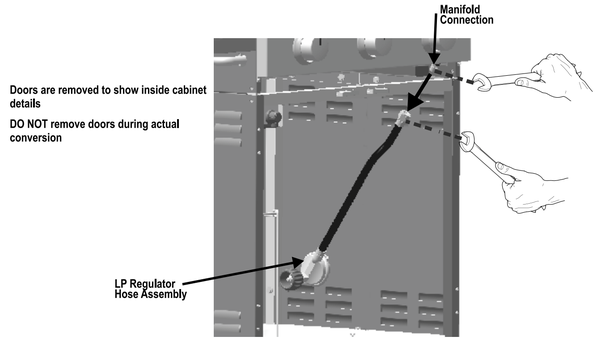
Remove the Grease tray for easy access to components.

The manifold connection is located inside the cabinet on the right side.

Using (2) wrenches (not provided) unscrew (counterclockwise) the LP hose and regulator.

Doors are removed to show inside cabinet details

DO NOT remove doors during actual conversion

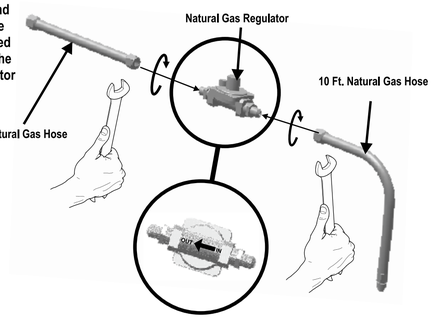


Step 16

Screw the 10 foot natural gas hose (clockwise) onto the inlet side of the natural gas regulator. Tighten securely using a wrench (not provided).

Screw the 8 inch hose (clockwise) onto the outlet side of the natural gas regulator. Tighten securely using a wrench (not provided).

Note: The inlet and outlet sides of the regulator are noted by markings on the rear of the regulator body.



Step 17

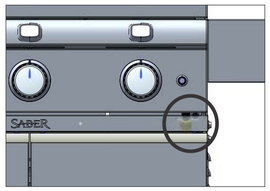
Remove the Grease Tray for easy access.

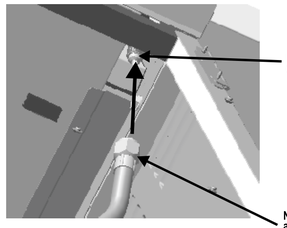
Secure the Natural Gas Hose and Regulator Assembly and 10 ft. Natural Gas Hose to the Manifold Connection with a wrench (not provided).

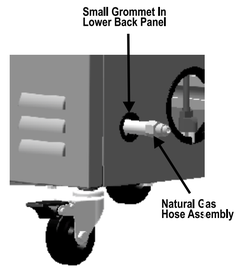
NOTE: Manifold connection is located behind the grease tray handle on the right side.

Route the 10 ft. Natural Gas Hose out the small grommet in the lower back panel.

Secure to the natural gas inlet pipe.







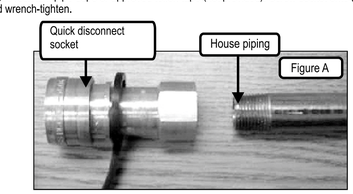
Doors are removed to show inside cabinet details

DO NOT remove doors during actual conversion

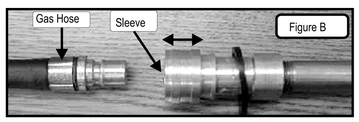
Step 18

CONNECTING YOUR GRILL TO THE NATURAL GAS SOURCE:

1. A professionally-installed shut-off valve between the supply piping and the socket is recommended, but not required, by the National Fuel Gas Code. Socket connection must be made outdoors.
2. Coat the gas supply pipe nipple with gas resistant pipe dope or approved teflon tape (not provided). Screw socket onto gas supply pipe (house gas source) as shown in Figure A and wrench-tighten.

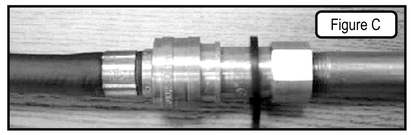


3. Pull back the sleeve on the quick disconnect socket and insert the unattached end of the gas hose into the socket. Release the sleeve and continue pushing the hose into the socket until the sleeve snaps into the locked position. See Figure B.



CONNECTING YOUR GRILL TO THE NATURAL GAS SUPPLY (con't.)

4. When the quick disconnect socket and the gas hose are connected, a valve in the socket opens automatically to permit full gas flow. When the gas hose is disconnected, the valve in the socket instantly and positively shuts off the flow of gas. Because the valve in the socket positively shuts off the flow of gas, the grill can be disconnected from the gas source by disconnecting the gas hose from the quick disconnect socket. The socket should be left attached to the gas source (house piping). Figure C shows properly connected hose and socket.



With proper assembly the gas hose cannot be removed without pushing the quick disconnect sleeve back. To disconnect, push the sleeve back and pull plug out of sleeve (this automatically shuts off gas).
NOTE: Hose and assembly are C.S.A. listed for natural gas, manufactured gas, mixed gas and for liquefied petroleum and for LP Gas-Air mixtures on basis of 0.64 specific gavity for 1000BTU's per cubic foot of gas at 0.3 in. water column pressure drop. Only ANSI Z21.54 approved hoses should be used with this grill.
The appliance and its individual shut off valve be disconnected from the gas supply piping system during any pressure testing on that system at test pressures in excess of ½ psi (3.5kPa).
The appliance must be isolated from the gas supply piping system by closing its individual manual shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to or less than ½ psi (3.5kPa).

CAUTION

The quick disconnect socket should never be connected to the grill. Direction of gas flow is indicated on the socket.

Step 19

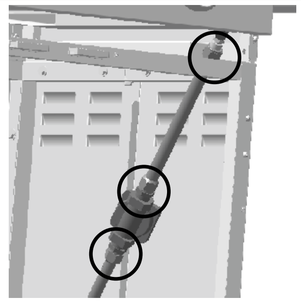
Leak Testing Natural Gas Hose

Turn all grill knobs to ○ **OFF**.

Brush soapy solution onto areas shown in pictures at right.

If "growing" bubbles appear, there is a leak. Re-tighten connections. If leak cannot be stopped do not try to repair.

Call SABER® for replacement parts.



Step 20

Re-install the grease tray (reference Step 1 illustrations for re-installation).

IMPORTANT

Prior to construction, confirm with your dealer if any permits are required to comply with the state and local codes for natural gas installation.

It is recommended that you use a certified or licensed gas technician to make all natural gas connections.

To allow proper heating performance of the side burner, confirm that your home natural gas supply pressure is sufficient to maintain 4.0" W.C. manifold pressure at the appliance (measured while it is in operation). A home natural gas supply pressure of 7"±1.5" W.C. entering the appliance regulator is desirable to achieve 4.0" W.C. outlet pressure at the appliance regulator. If the grill is operating at a gas pressure lower than 4.0" W.C., the resulting BTU rate for each will decrease resulting in poor heating performance. Decreased gas pressure can also make the appliance more susceptible to blow-out by wind. A certified gas technician can confirm if your home's natural gas supply pressure is acceptable.

Natural Gas Connections and Service Regulators Above 1/2 psi:

Prior to 1998, all residential gas service regulators were set with an outlet pressure of 7 inches water column. In the 1998 edition of NFPA 54, the National Fuel Gas Code, a change was made allowing service regulators of 2 and 5 psi. With this change it was also required that an in line regulator be connected between the service regulator and the appliance regulator if the 2 or 5 psi system is used. This additional regulator is not supplied with the product. It is possible for a consumer, making the connection themselves, or a plumber, not checking, to tap into a 2 or 5 psi line. If a pressure of 2 psi or greater is supplied to the appliance regulator on certain grills it will shut down and not deliver any gas to the grill. The included quick disconnect socket and hose should not be used at pressures above 1/2 psi.

If the grill is properly connected and still not getting gas, delivery pressure needs to be verified. If pressure is greater than 1/2 psi, make sure that an in line regulator is present. Once the grill has been over-pressured, the regulator may or may not have been damaged. The best practice is to replace the regulator.

WARNING

The appliance must be disconnected from the natural gas supply piping system during any pressure testing of the system in excess of ½ PSIG (3.5 kPa).

The appliance must be isolated from the natural gas supply piping system by closing all individual shut-off valves during any pressure testing of the system equal to or less than ½ PSIG (3.5 kPa).

Never connect the appliance to an unregulated gas supply.

4.Connecting the Natural Gas Supply Line:

Step 1: Correctly Sizing the Natural Gas Supply Line

In most cases, a pipe diameter of ½" to ¾" is sufficient to connect your outdoor kitchen to your home's natural gas supply system. The correct pipe size depends on the following:

1. the overall length of your home's natural gas supply pipe run
2. the connection point of your outdoor kitchen into your home's natural gas supply system with respect to placement of natural gas appliances in your home
3. the desired distance of the outdoor kitchen from your home's natural gas supply
4. the combined total BTU rate of all the natural gas appliances in your home.

A certified gas technician will be able to recommend the appropriate gas pipe size and length to connect your outdoor kitchen to your home gas supply. The BTU rate of the side burner is 18,000 BTU/hr for model K00SB5317.

Step 2: Placement of the Manual Shut-off Valve

It is recommended that a manual shut-off valve that is sized correctly for the gas supply pipe be installed outside the kitchen enclosure. This valve will allow safe access to shut off the natural gas supply to the outdoor kitchen in the event of an emergency. A convenient location for the safety valve is at the rear of the kitchen enclosure. This allows for easy access to connect the gas piping in the enclosure to the shut-off valve.

If a gas supply stub-up is used inside the kitchen enclosure, an external shut-off valve close to the grill is still recommended.