



Natural Gas Conversion Kit

For the following Coleman® Gas Barbecue Grills:

8100 Series (M/N 9992-643)

8200 Series (M/N 9992-644)

Connections must comply with local requirements and are the sole responsibility of the person performing the work. A certified plumber must make connection to gas source. All codes must be followed.

Note: These instructions apply to more than one model grill. The parts included are designed for your specific grill. The illustrations may differ slightly from model to model.

IMPORTANT

Read this document carefully before attempting installation of this conversion kit. These instructions should be left with the consumer for future reference.

WARNING

- This Natural Gas conversion Kit must be installed only by a qualified service technician.
- 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 1/2 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.

WARNING

- If the information in this document is not followed exactly, a fire or explosion may result causing property damage, personal injury or loss of life. Read the Coleman® *Gas Barbecue Use, Care & Assembly Manual With Grill Lighting Instructions*, before attempting installation of this conversion kit.

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.

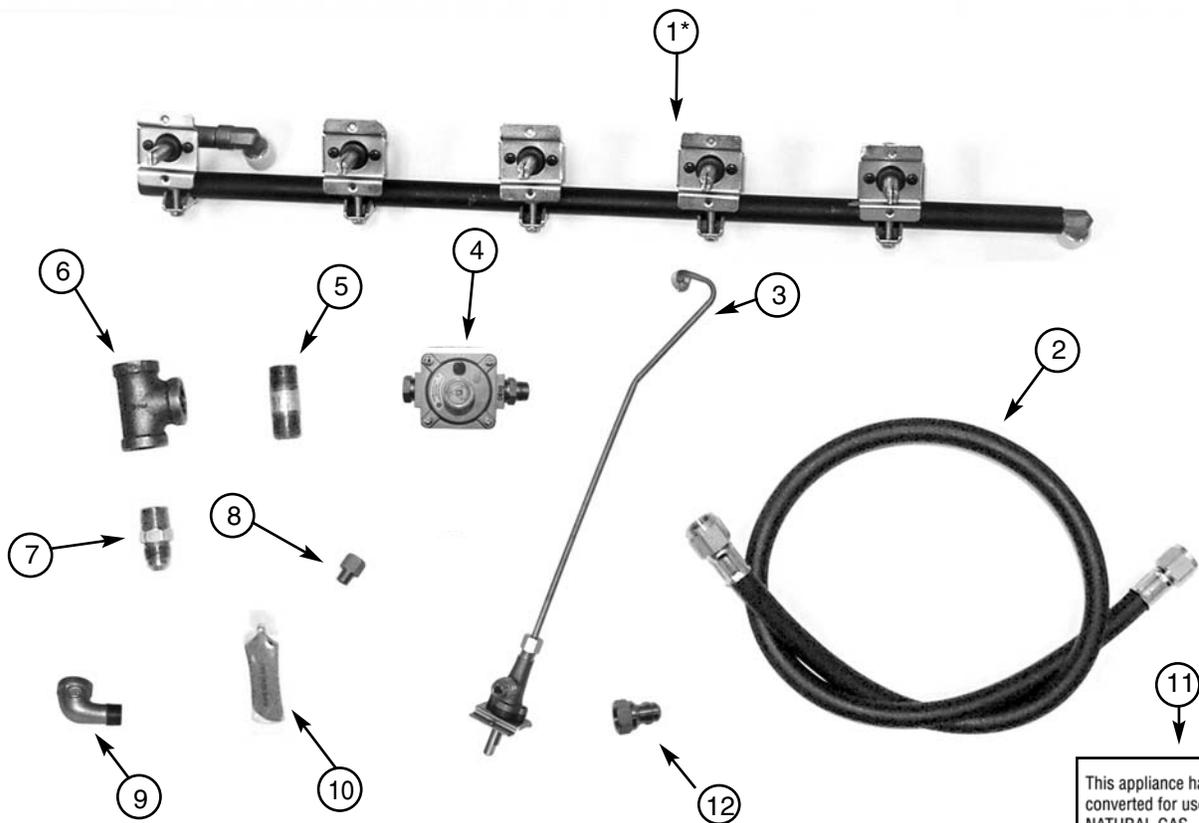
WARNING

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 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*.

Turn off LP tank and disconnect regulator from tank prior to servicing grill.

Natural Gas Conversion Instructions



This appliance has been converted for use with NATURAL GAS.

Date: _____

Part No.	Qty	Description
1	1	Main Burner Valve & Manifold Assembly (NG) 8100
	1	Main Burner Valve & Manifold Assembly (NG) 8200
2	1	Hose 19" - 3/8" Flare Both Ends for Side Burner (NG)
3	1	Side Burner Valve Assembly - 12K BTU (NG)
4	1	Regulator 3/8" FNPT Threads (NG)
5	1	Nipple Pipe 3/8" NPT x 1.5"
6	1	Tee Fitting - Galvanized 3/8" NPT
7	2	Connector 3/8" MNPT x 3/8" Flare
8	1	Rear IR NG Orifice
9	1	3/8" Street Elbow
10	1	Pipe Sealant (4ml)
11	1	NG Conversion Sticker
12	1	3/8 FNPT to 3/8" Flare

*your part may differ in appearance, depending on size of grill

Tools Needed:

Phillips head screwdriver

1/4" nut driver *

9/16" wrench

Adjustable wrench

* 1/4" socket set with extension can also be used.

Be sure gas supply is off, the knobs are in the off position and the grill is cool.

1. Remove cooking grates and heat tents (Fig. 1).
2. Remove the screws holding the rear heat shield in place. Lift out rear heat shield and set aside (Fig. 2).
3. Remove the two screws holding each electrode in place (Fig. 3).
4. Lay igniters on floor of grill (Fig. 4).

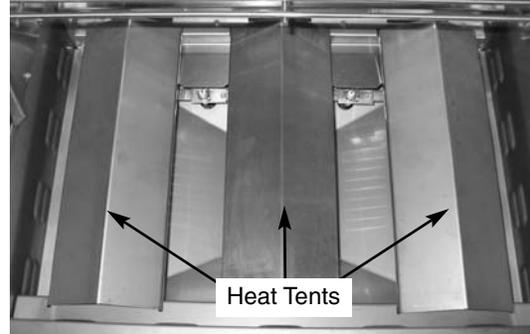


Fig 1

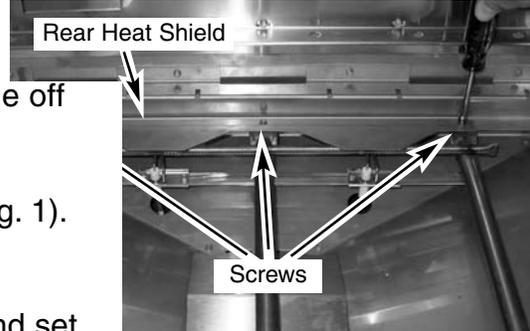


Fig 2

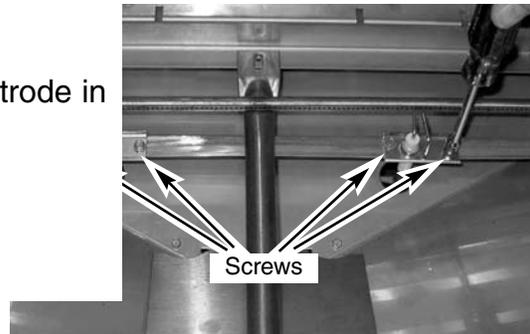


Fig 3

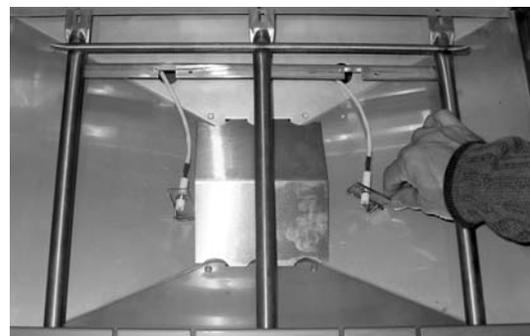


Fig 4

Natural Gas Conversion Instructions

5. Remove the screws from the bottom of the heat shield, holding the front heat shield in place. The screws are located under the bottom lip of the shield (Fig. 5).
6. Remove the two side heat shield screws located under the bottom lip of the heat shield. There is one screw on each side (Fig. 6).
7. Remove the front heat shield (Fig. 7).
8. Grasp and push the burner(s) towards the rear of the grill to detach the burner from the valves (Fig. 8).
9. Angle the burners up and remove (Fig. 8).

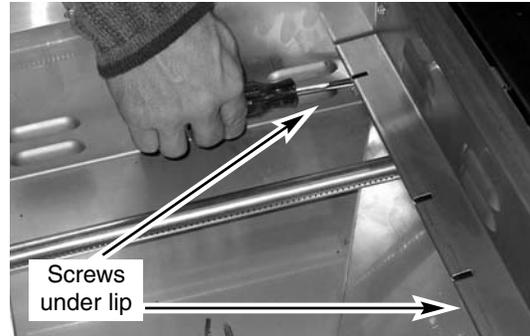


Fig 5

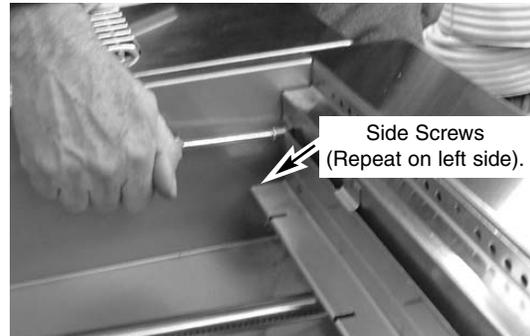


Fig 6



Fig 7

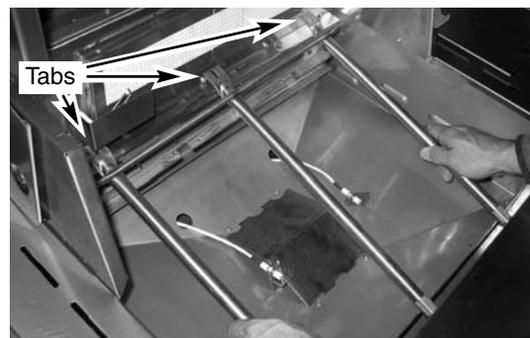


Fig 8

Natural Gas Conversion Instructions

10. Disconnect the right side flexline from the manifold using the adjustable wrench. This will free up the right side of the manifold (Fig. 9).
11. Disconnect the left side flexline from the back infrared valve using an adjustable wrench. This will free up the left side of the manifold (Fig. 10).
12. Remove the control knobs from the front of the grill (Fig. 11).
13. Remove the two screws holding each bezel in place on the control panel (Fig. 12).
14. Remove the bezels from the front control panel. Note: The small bezel stays in place (Fig. 13).
15. Remove manifold from grill body (Fig. 14).

You are now ready to install the new NG manifold.

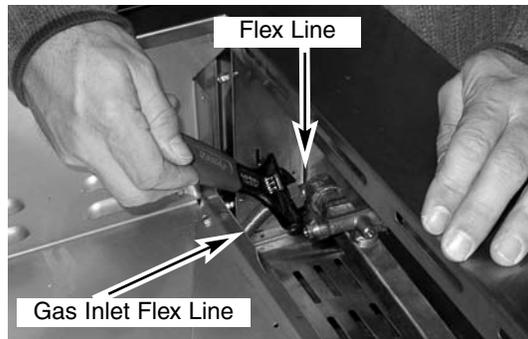


Fig 9

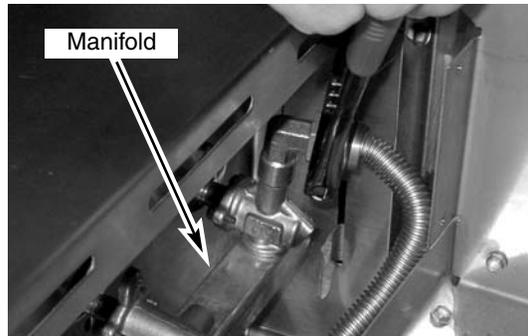


Fig 10



Fig 11

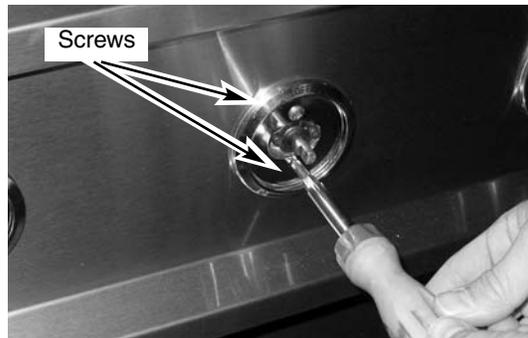


Fig 12

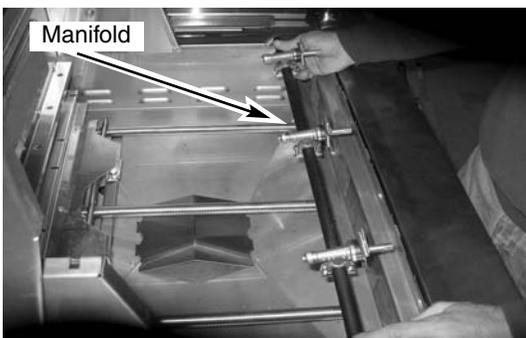


Fig 14



Fig 13

Natural Gas Conversion Instructions

16. Start by placing the new manifold into the grill body with the control knob stems going outward through control panel front (Fig. 15).
17. Reattach the bezels to the manifold with the two screws. Make sure that "off" is facing up on the bezel. (Fig. 12 & 13).
18. Reattach the flexline on the right of the grill to the new manifold using the adjustable wrench (See Fig. 9 on previous page).
19. Reattach the flexline on the left of the grill to the back infrared valve using an adjustable wrench (Fig. 16).
20. Reattach the control knobs onto the manifold stems, making sure the arrow is facing upwards (See Fig. 11 on previous page).
21. Reinstall burners into the grill body. Line up the burners with the valves on the manifold, making sure they are level (Fig. 17 & 18).
22. Reattach the electrode and their heat shields to the burners (Fig. 2, 3, and 4).
23. Reattach the rear heat shield before attaching the front heat shield to be sure the burners remain over the valves (Fig. 19).
24. Reinstall the front heat shield (Fig. 5, 6, and 7).
25. Reinstall the heat tents (Fig. 1).
26. Reinstall the cooking grates.

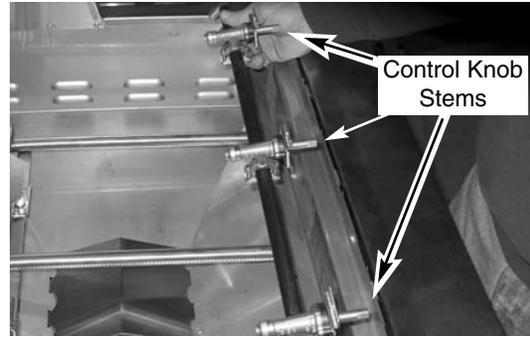


Fig 15

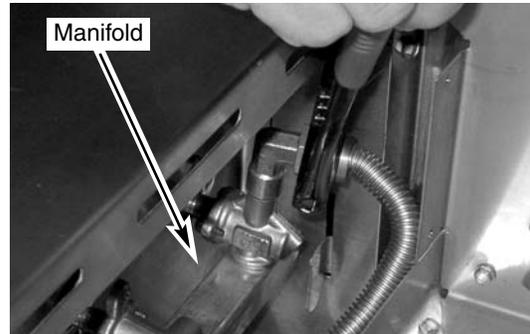


Fig 16

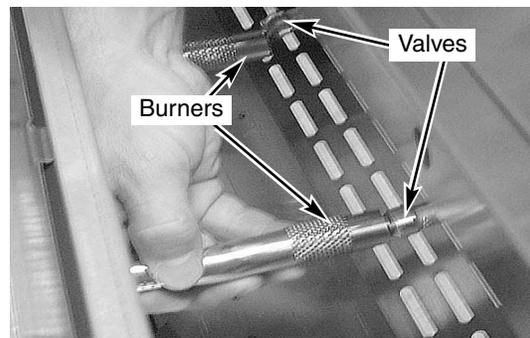


Fig 17

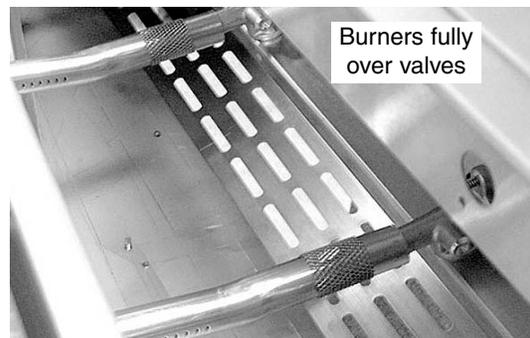


Fig 18

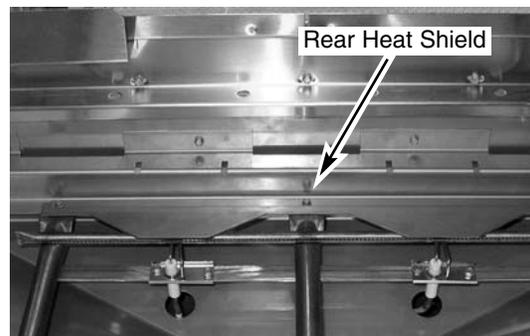


Fig 19

Installing the NG regulator

1. Remove the hose from the brass flare fitting using an adjustable wrench. Located inside the cart on bottom of grill head (Fig. 20).

Remaining hose end still connected will be removed later.

2. Remove the brass flare fitting from the gas pipe (Fig. 21).

Note: For the following steps, the supplied pipe sealant needs to be applied to all pipe threads before the fittings are attached.

Pipe sealant should not be used on any flared fittings!

3. Remove the grommet in the side of the cart by pressing in on the side with your fingers (Fig. 22).
4. Attach the tee fitting to the gas pipe as shown. Make sure to apply pipe sealant before attaching fitting. Tighten with wrench (Fig. 23).
5. Attach the 3/8" MNPT to flared 90° elbow to the tee fitting as shown. Remember to apply pipe sealant to the pipe threads. Tighten with wrench (Fig. 24).

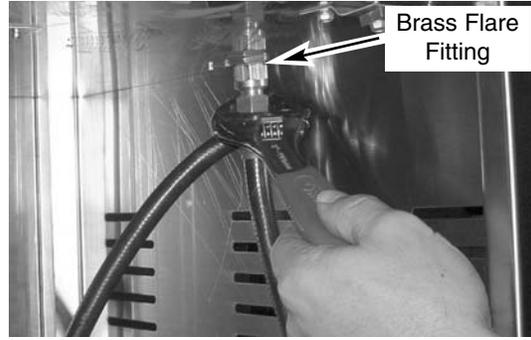


Fig 20

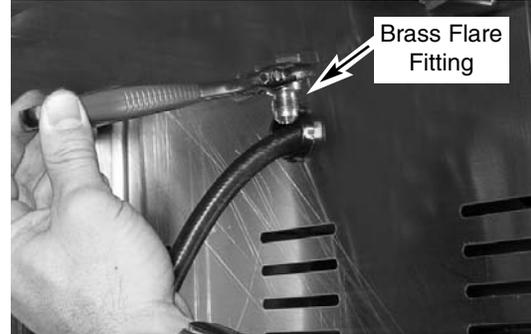


Fig 21

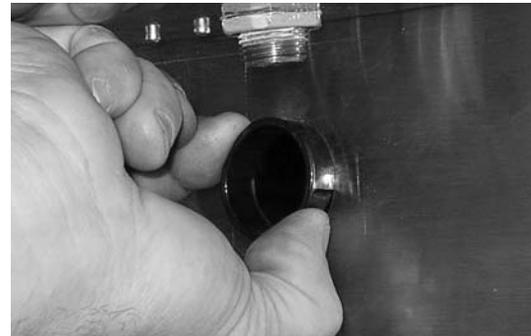


Fig 22



Fig 23



Fig 24

Natural Gas Conversion Instructions

6. Attach the 3/8" street elbow to the bottom of the bottom of the tee connector. Make sure to apply pipe sealant before attaching. Tighten with wrench (Fig. 25).
7. Reinsert the grommet in the side of the cart (Fig. 22).
8. Attach one end of the supplied hose to the flared fitting on the side of the tee connector (Fig. 26 and 27).
9. Assemble the 3/8" pipe nipple to the NG regulator. Assemble the 3/8" FNPT to flared fitting to the regulator. Use pipe sealant and wrench tighten (Fig. 28).
10. Assemble the NG regulator with fittings to the 3/8" street elbow. The regulator should point toward the rear of the grill. Use pipe sealant and wrench tighten (Fig. 29).

Note: Pay attention to arrow on the NG regulator indicating direction of gas flow. The arrow should point toward the grill.

Remember to apply pipe sealant!

This completes the NG regulator installation.



Fig 25



Fig 26



Fig 27



Fig 28

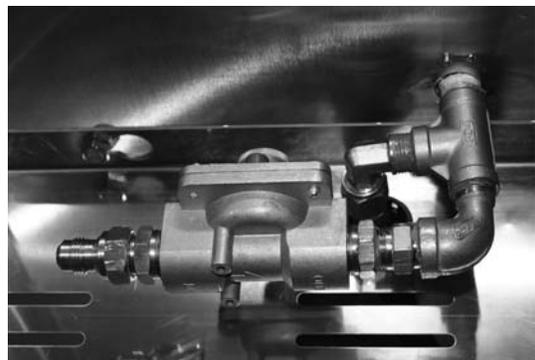


Fig 29

Converting the Rear Infrared Burner to NG

1. Remove the four screws on the inside of the grill that hold the rear infrared cover in place (Fig. 30).
2. Close the grill hood slowly.
3. Remove the two screws from the back infrared cover, located on the back of the grill (Fig. 31).
4. Grasp rear infrared cover and remove it from the grill.
5. Disconnect flex line and twist orifice elbow to remove LP orifice (Fig. 32 & 33).
6. Completely remove the LP orifice from the flared fitting and discard the LP orifice (Fig. 33).
7. Identification of the NG orifice (Fig. 34).

Note: NG orifice has a larger opening compared to the LP orifice being replaced.

8. Install the NG orifice into the flared fitting and tighten completely with an adjustable wrench (Fig. 33).
9. Reconnect the flexline (Fig. 32).
10. Replace the rear infrared cover. Install the two screws on the back infrared cover, located on the back of the grill (Fig. 31).
11. Open the grill hood slowly.
12. Reinstall the four screws on the inside of the grill that hold the rear infrared cover in place (Fig. 30).

This completes the Rear Infrared Burner Conversion.

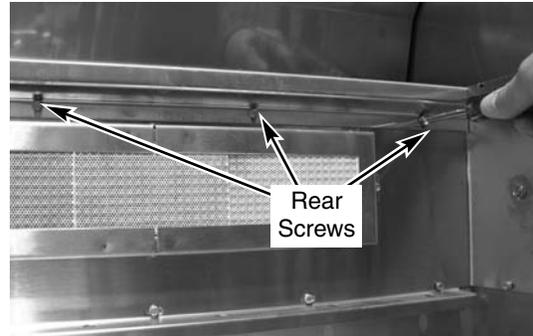


Fig 30



Fig 31



Fig 32



Fig 33



Fig 34

Converting the Side Burner to NG

1. Remove side burner grate, porcelain cap and burner head (Fig. 35).
2. Remove and discard the LP regulator hose attached to the side burner LP valve assembly (Fig. 36).
(Located on the under side of the side burner).
3. Remove the control knob from the front of the side burner (Fig. 37).
(It should pull off by hand).



Fig 35

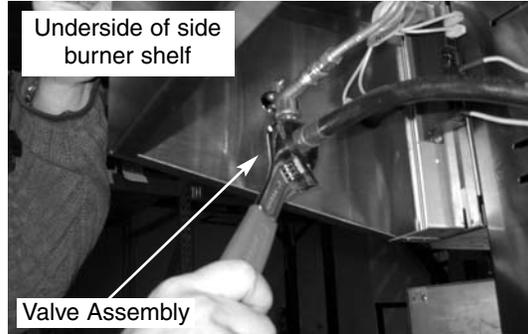


Fig 36



Fig 37

Natural Gas Conversion Instructions

4. Remove the two screws holding the bezel and valve in place. Remove bezel from the front of the side burner (Fig. 38).
5. Remove the two screws holding the side burner LP valve assembly in place. This will free up the assembly (Fig. 39 & 40).
6. Disconnect the igniter wire from the side burner electrode (Fig. 40).
7. Holding the assembly securely, remove side burner valve assembly from casting. Replace with new side NG side burner valve assembly (Fig. 41 & 42).



Fig 38

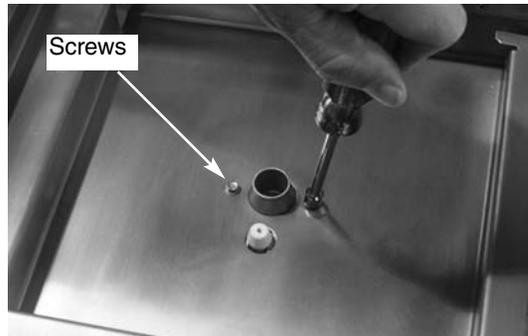


Fig 39

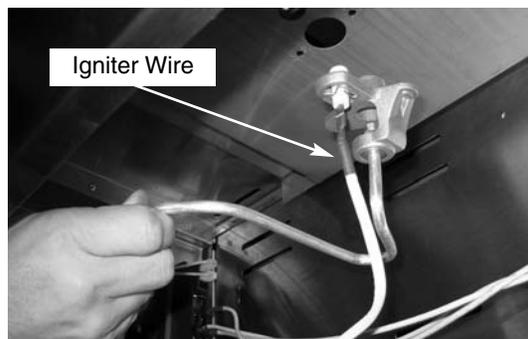


Fig 40

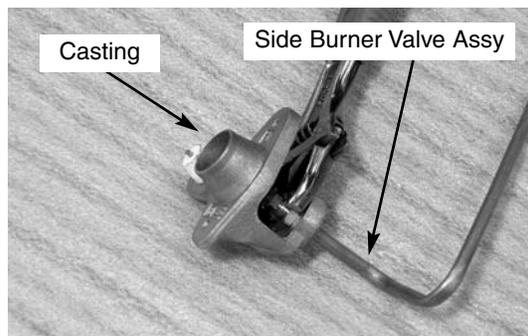


Fig 41

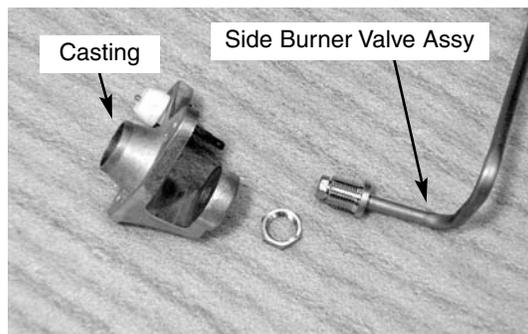


Fig 42

Natural Gas Conversion Instructions

8. Install the NG valve assembly to the underside of the side burner with the two screws previously removed (Fig. 43).

Note: Make sure the NG valve is facing towards the front of the side burner and the valve stem is inserted into the hole.

9. Reattach the bezel to the front of the side burner and the NG valve with the two screws previously removed (Fig. 44).

Note: Make sure the bezel is installed in the correct position. The "H" will be facing the ignitor.

10. Reattach the control knob.
11. Connect the end of the new gas supply hose to the side burner valve assembly (Fig. 45).
12. Reattach the side burner igniter wire to the electrode.

This completes the side burner conversion.

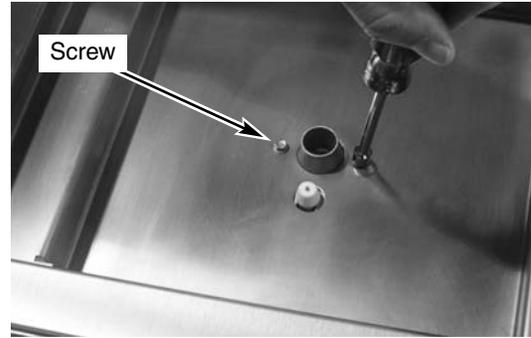


Fig 43

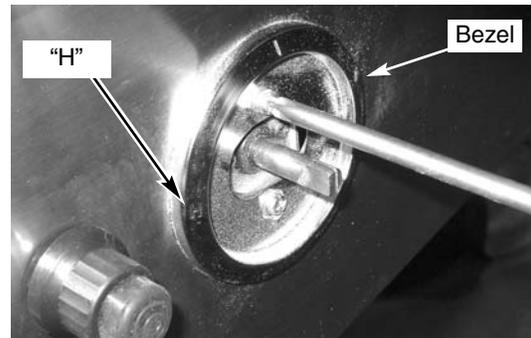


Fig 44

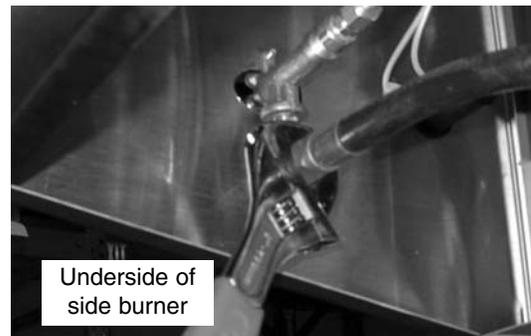


Fig 45

Label the Grill

1. Apply conversion label 9992-461 on the grill, next to the lighting instruction label.

Note: At the completion of the conversion, a leak test should be performed on all fittings. See Use and Care manual for leak testing procedure.

**Installation is now complete.
Enjoy your grill safely.**

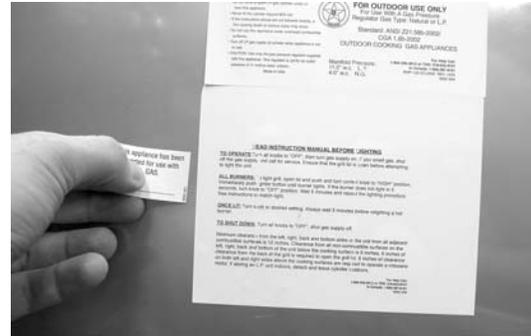


Fig 46

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