

806078 Natural Gas Conversion Kit For Cooktop Models

⚠ WARNING

THIS CONVERSION KIT MUST BE INSTALLED BY A QUALIFIED SERVICE TECHNICIAN IN ACCORDANCE WITH MANUFACTURERS 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 TECHNICIAN 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 THIS KIT.

CONTAINS:

<u>QTY</u>	<u>DESCRIPTION</u>	<u>QTY</u>	<u>DESCRIPTION</u>
3	Jet, Outer Burner Byp 0.54mm (Stamped 54)	1	Rating Label, Nat Conv. -2
2	Orifice, Jet Holder 1.61mm (Stamped 161)	1	Orifice, Main, Nat Gas, 15Kbtu (Stamped 178)
3	Orifice, Jet Holder 1.40mm (Stamped 140)	1	Orifice, Sim, Nat Gas, 15Kbtu (Stamped S)
2	Orifice, Valve Large .61mm (Stamped 61)	1	Orifice, Byp, Main, Nat, 15Kbtu (Stamped 97)
5	Orifice, Valve .57mm (Stamped 57)	1	Orifice, Byp, Sim, Nat, 15Kbtu (Stamped 62)
2	Orifice, Dist. Ring .79mm (Stamped M)	1	O-Ring Service Kit, Cktp -2
3	Orifice, Dist. Ring .63mm (Stamped J)	1	Instructions

NOTES:

- *This conversion kit is intended for converting the Wolf cooktop models listed below from liquid propane to natural gas, for altitudes up to 10,250 feet (3.1 km). Contact the factory if above this altitude.*
- *Since this kit can be used on multiple models it does contain extra components and the instructions do address some aspects that may not be present on all models.*

Models	CT15G/S-LP	CT30G/S-LP	CT36G/S-LP
		CT30G/P-LP	CT36G/P-LP

TOOLS NEEDED: Phillips Head Screwdriver, Small Blade Flat Head Screwdriver, 7, 11 & 12mm Open Ended Wrenches, Adjustable Wrench, 4, 7 & 23mm Open Ended Wrenchs or Socket

⚠ CAUTION

Shut off gas supply to the appliance prior to disconnecting the electrical power.

INSTALLATION PROCEDURE:

Cooktop Pan Removal:

1. Remove cooking grates, burner heads and control knobs.
2. Carefully pull spark igniters out of inner distribution rings. Do not damage or bend the electrode tip. Then disconnect electrode wire.
3. Using a 7/8" (23mm) socket, remove the brass venturis.
4. Lift cooktop pan up off of unit.



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Jet Holder Orifice Replacement (See Figure 1):

Use a 7mm socket to unscrew orifice from each jet holder.

- On large 15K burner: Replace orifice stamped 115, with orifice stamped 178.
- On medium 12K burner: Replace orifice stamped 104, with orifice stamped 161.
- On small 9.2K burner: Replace orifice stamped 91, with orifice stamped 140.

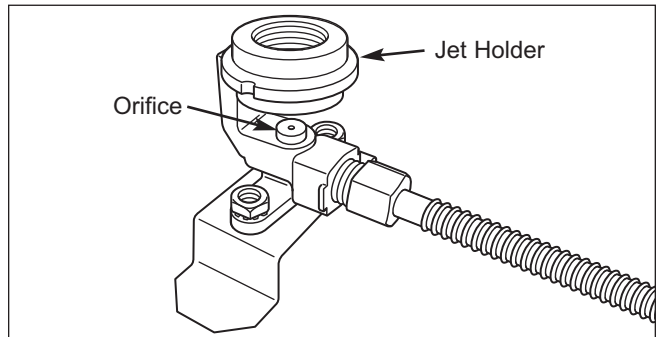


Figure 1. Jet Holder Orifice

Simmer Orifice Replacement (See Figure 2):

1. Use an 11mm open-ended wrench to remove ferrule nut holding flex tubing.
 2. Using an adjustable wrench and a 12mm open-ended wrench, remove orifice fitting from air shutter housing.
 3. Use a 4mm socket to unscrew orifice.
- On large 15K burner: Replace orifice stamped P, with orifice stamped S.
 - On medium 12K burner: Replace orifice stamped X, with orifice stamped M.
 - On small 9.2K burner: Replace orifice stamped G, with orifice stamped J.

NOTE: Do NOT adjust the air shutter openings. These settings have been tested to 8,600' (2.6km).

Valve Bypass Screws Replacement (See Figure 3):

Use a #1 Phillips head screw driver to remove ring light and rubber splashguard to expose valve bypass screws.

- On large 15K burner:
 - a. Replace main bypass valve screw stamped 60, with bypass valve screw stamped 97.
 - b. Replace simmer bypass valve screw stamped 39, with bypass valve screw stamped 62.
- On medium 12K burner:
 - a. Replace main bypass valve screw stamped 46, with bypass valve screw stamped 61.
 - b. Replace simmer bypass valve screw stamped 36, with bypass valve screw stamped 57.
- On small 9.2K burner:
 - a. Replace main bypass valve screw stamped 33, with bypass screw stamped 57.
 - b. Replace simmer bypass valve screw stamped 37, with bypass valve screw stamped 54.

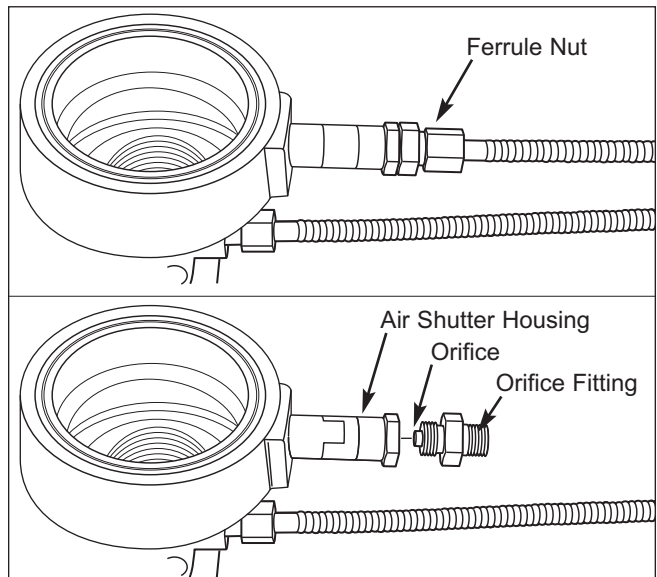


Figure 2. Simmer Orifice

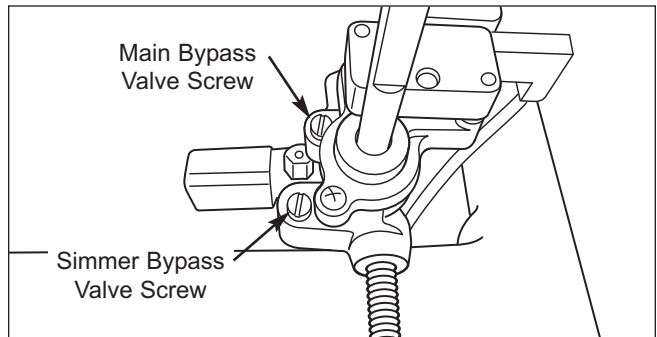


Figure 3. Valve Bypass Screws

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Cooktop Reassembly:

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ANYTIME THE COOKTOP IS DISASSEMBLED, NEW O-RINGS MUST BE INSTALLED. FAILURE TO REPLACE THESE O-RINGS COULD CAUSE GAS LEAKS.

NOTE: For ease of reassembly, it is recommended to remove cooktop burner box from the counter before re-assembly.

1. Replace burner gaskets as shown (See Figure 4). The outer distribution ring's o-ring has a thinner cross section.
2. Install the cooktop pan in place over the outer distribution rings. Make sure the correct spark electrode wires are pulled up through the appropriate burner locations (See Figure 4).

⚠ WARNING

USE THE O-RING, NOT THE GASKET AT THIS LOCATION, AS THE GASKET WILL ALLOW A GAS LEAK WHEN ASSEMBLED.

3. Place the gasket in the inner distribution rings. These gaskets are thicker have a larger cross section and will have a slip fit into the inner distribution rings to hold them in place during installation (See Figure 4).

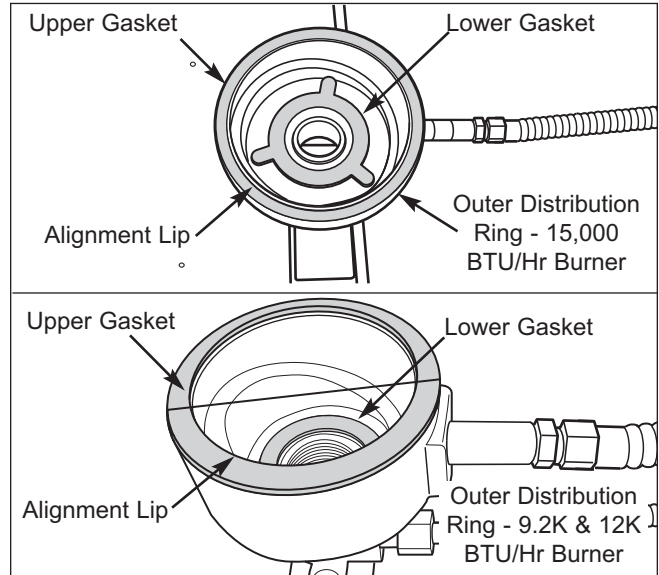


Figure 4. O-Ring Replacement

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4. Center outer distribution rings within openings of cooktop pan. The alignment lip of the outer distribution rings must protrude through the cooktop pan. Applying pressure to cooktop pan until inner distribution rings are tightened helps ease assembly.
5. Tighten brass venturi inside inner distribution ring to 100 in-lb.
6. Replace electrodes, burner caps and cooking grates.
7. Verify the electrode position:
 - a. Make sure electrode is pushed all the way down until it is seated and captured by alignment lip of inner distribution ring.
 - b. The electrode tip should be facing toward front of unit and be at same height as second row of burner ports from top of the burner head.
 - c. The spark gap should be .100" from the burner head.

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Gas Regulator Conversion (Refer to Figure 5):

1. Use a 7/8" (23mm) socket or wrench to remove regulator access cap.
2. On the inside of the cap, remove plastic insert and invert it so that the disk end is inward, then replace in the cap.
3. Replace-install access cap on regulator.

MANIFOLD PRESSURE NOTE: With the conversion complete, the manifold pressure should be 5" of water column. The supply pressure should be from an approved natural gas source at minimum, 7" and maximum, 14" of water column respectively.

FLAME CHARACTERISTICS NOTE (Refer to Figure 6): The flame produced by the burner should be a quiet, blue flame with very little yellow tipping and exhibiting no lifting or blowing. No modifications should need to be made to the flame.

IGNITION SYSTEM NOTE: If the unit is operating properly after the conversion, the burners must ignite within 4 seconds of gas flowing out of the burner ports. If the flame is extinguished, the unit must automatically re-ignite within 4 seconds. When the burner is operating correctly, with a proper, hard flame, the unit must not be sparking.

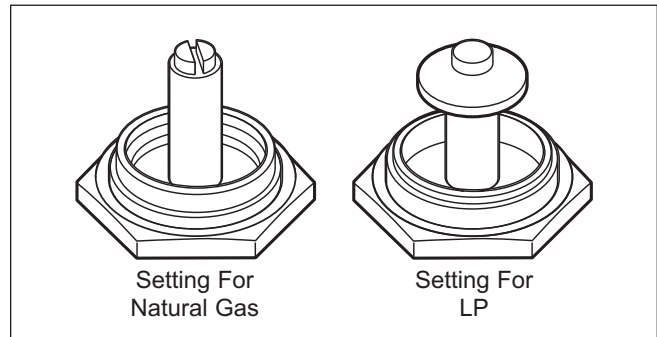


Figure 5. Convertible Gas Regulator

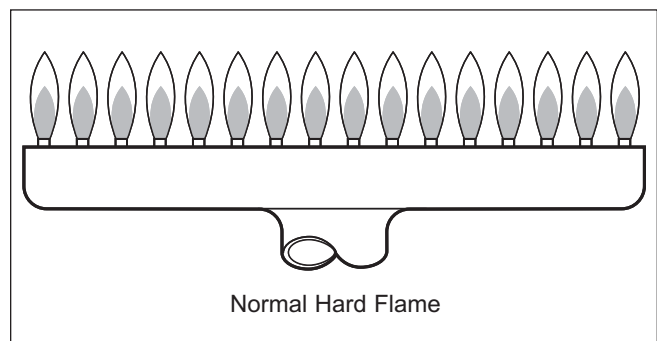


Figure 6. Flame Appearance

Leak Testing:

With all orifices converted, use a gas detection tool to detect any gas leakage into the burner box. This is done by placing the collection end of the gas detection tool in the access holes in the front lower corners of the burner box. After checking for leaks with the burners off, turn on all the burners and recheck for leaks.

Labels:

Once installation of all orifices is complete, and all the appropriate tests have been satisfied, fill out all applicable information and affix the appropriate natural gas cooktop rating label as close as possible to the existing rating plate.