



HEARTH PRODUCTS

HEARTH PRODUCTS
KITS AND ACCESSORIES

775,251M
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FIRESTAR™ GAS CONVERSION INSTRUCTIONS NG TO LP
CAT. NO. 75173, MODEL FSTR-CK-NG TO LP

**INSTALLATION INSTRUCTIONS FOR CONVERTING FROM NATURAL GAS (NG) TO
PROPANE GAS (LP). FOR USE WITH THE FIRESTAR™ GC3 B-VENT GAS FIREPLACE INSERT**

MERIT™ SERIES

KIT CONTENTS (See Figure 1):

- 1 ea. Robertshaw LP Regulator Kit (A)
- 1 ea. Robertshaw LP Pilot Orifice (B)
- 1 ea. #49 LP main burner orifice (39,000 BTU's) (C)
- 1 ea. Instruction Sheet

TOOLS NEEDED (See Figure 2):

- 5/32" Long Allen Wrench Or T-Handle Wrench
- #2 Phillips Screwdriver
- 7/16" Open End Wrench
- 3/4" Open End Wrench

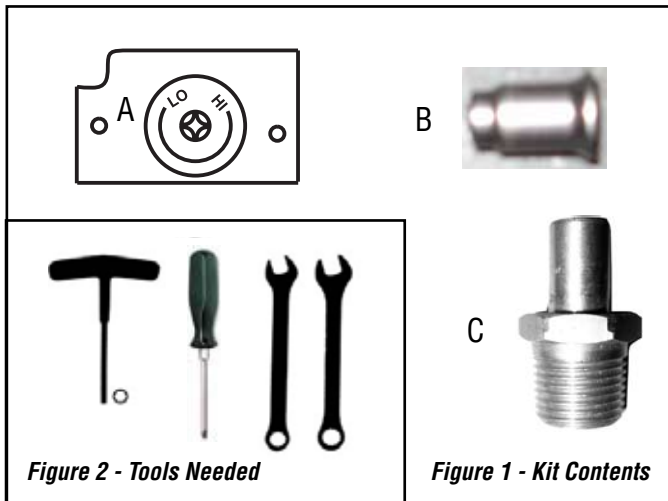


Figure 2 - Tools Needed

Figure 1 - Kit Contents

! 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 performing this installation is responsible for the proper installation of this kit and assumes responsibility for this conversion. The installation is not proper and complete until the operation of the converted appliance is checked as specified in the manufacturers instructions supplied with the kit.

! AVERTISSEMENT

Cet équipement de conversion sera installé par une agence qualifiée de service conformément aux instructions du fabricant et toutes exigences et codes applicables de l'autorisés avoir la juridiction. Si l'information dans cette instruction n'est pas suivie exactement, un feu, explosion ou production de protoxyde de carbone peut résulter le dommages causer de propriété, perte ou blessure personnelle de vie. L'agence qualifiée de service est esponsable de l'installation propre de cet équipement. L'installation n'est pas propre et complète jusqu'à l'opération de l'appareil converti est chèque suivant les critères établis dans les instructions de propriétaire provisionnées avec l'équipement.

! IMPORTANT CANADA

The conversion shall be carried out in accordance with the requirements of the provincial authorities having jurisdiction and in accordance with the requirements of the CAN/CSA B149.1 Installation code.

! IMPORTANT LE CANADA SEULEMENT

La conversion devra être effectuée conformément aux recommandations des autorités provinciales ayant juridiction et conformément aux exigences du code d'installation CAN/CSA B149.1 .

! IMPORTANT

The burner orifices provided in this kit are only for use at elevations of 0 to 2,000 feet (610 M) in the USA and 0 to 4,500 feet (0-1372 M) in Canada. At higher elevations the BTU input must be de-rated by 4% for every 1,000 feet (305 M) to maintain the proper ratio of gas to air. If the installer must convert the unit to adjust for varying altitudes, a deration information sticker must be filled out by the installer and adhered to the appliance at the time of the conversion. Contact your local gas supplier for deration requirements for your area.

READ ALL THE STEPS BEFORE STARTING THE CONVERSION.
INSTALLER NOTICE: THESE INSTRUCTIONS MUST BE LEFT WITH THE APPLIANCE.

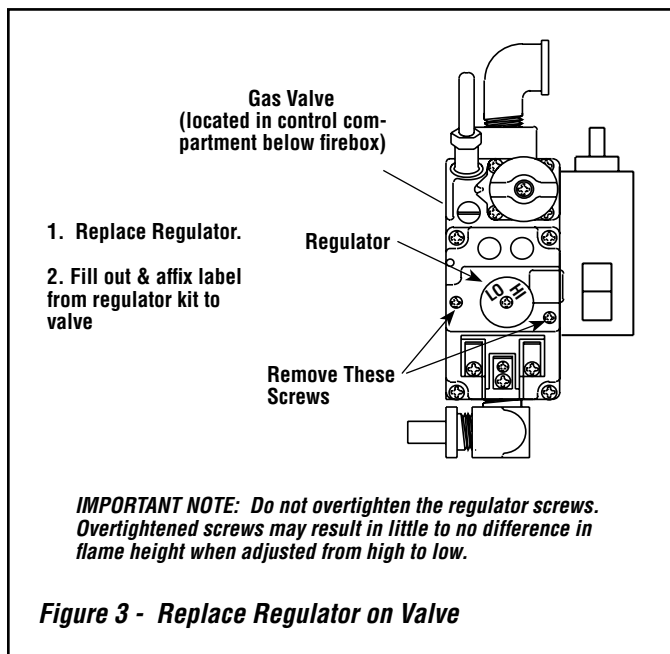
This kit contains components required to convert this appliance from using Natural Gas to using Propane Gas as the only fuel. All of these components must be replaced in order for the unit to operate safely on Propane Gas.

When installing gas components use pipe joint compound or Teflon tape on all pipe fittings before installing (ensure propane resistant compounds are used, do not use pipe joint compounds on flare fittings).

INSTALLATION INSTRUCTIONS

Step 1. TURN OFF THE GAS SUPPLY TO THE APPLIANCE. Unplug the power cord for the blower.

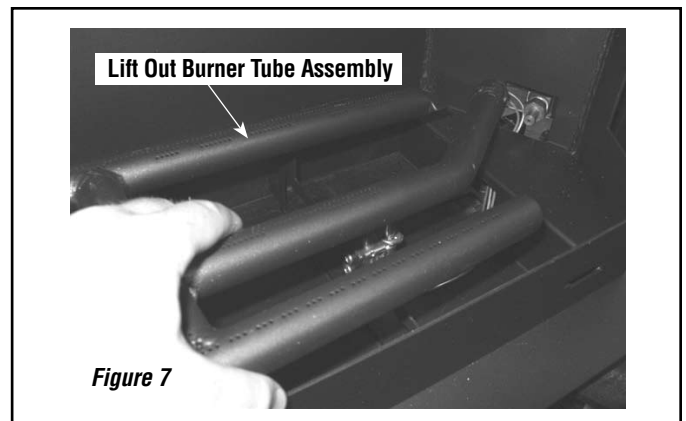
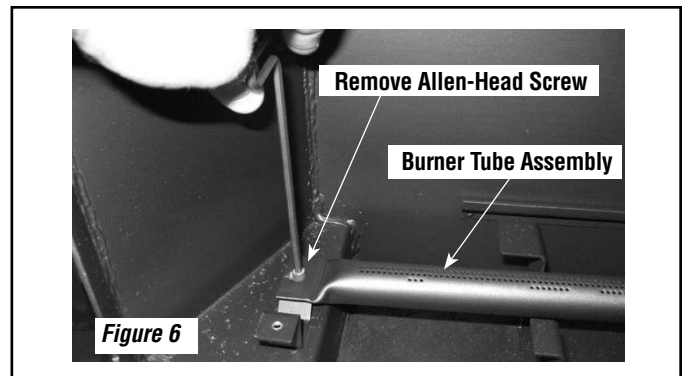
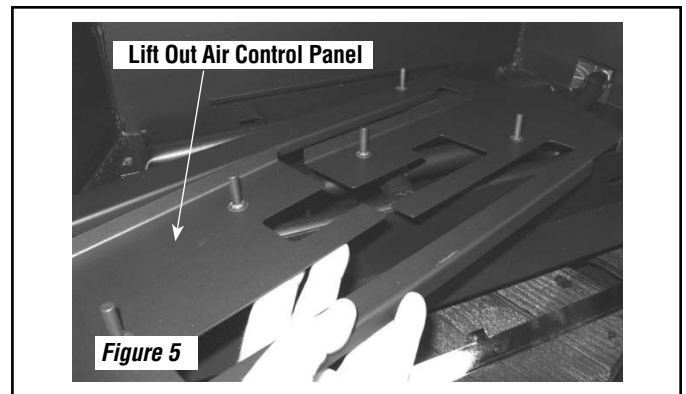
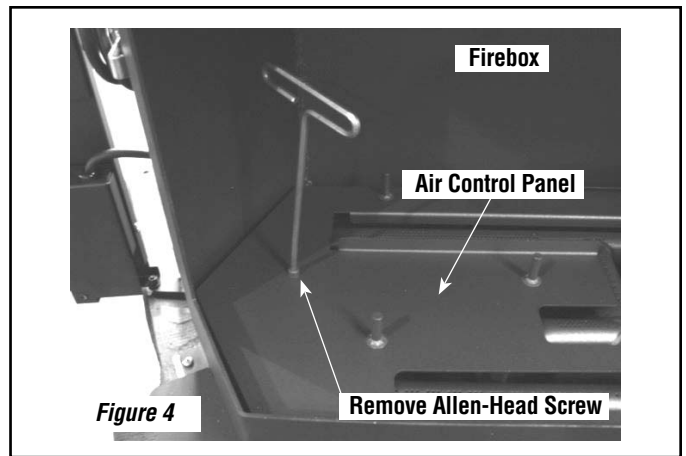
Step 2. Locate the valve behind the right side access door. Using a Phillips screwdriver, remove and discard the two pressure regulator mounting screws (see **Figure 3**). Remove the pressure regulator and rubber gasket. Discard all removed components. Install the new regulator. Ensure the rubber gasket on the back of the pressure regulator is properly positioned when installing the new pressure regulator using the new screws supplied with this kit. Locate the label provided in the regulator kit. Write in the required information, then affix it to the valve.



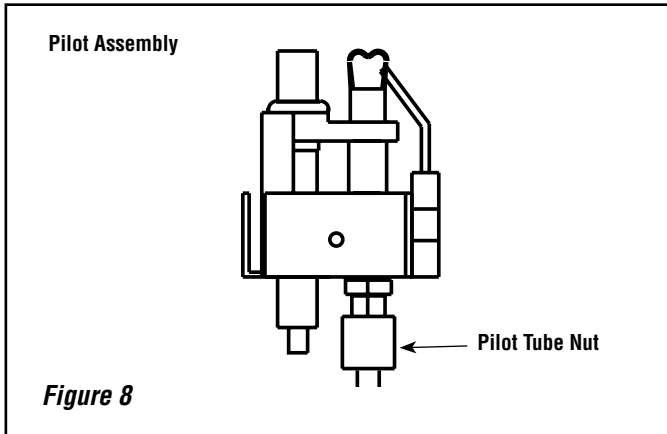
Step 3. Remove the glass door by opening both latches on the right and left side of the door (see **Page 18** in the *Installation and Operation Manual*). Carefully remove the logs. Exercise care so as not to break the logs. Set aside in a safe place.

Step 4. Using a 5/32" allen wrench, remove the allen-head screw on the left side of the air control panel as shown in **Figure 4**, then lift out air control panel as shown in **Figure 5**.

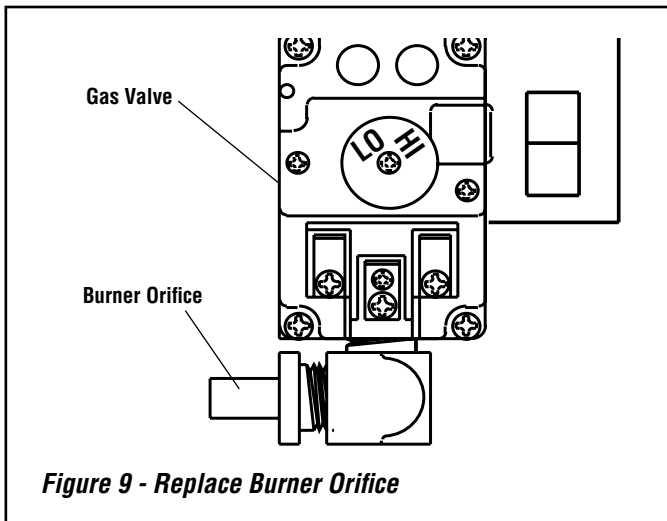
Step 5. Using a 5/32" allen wrench, remove the screw which secures burner tube assembly as shown in **Figure 6**. Then lift out burner tube assembly as shown in **Figure 7**.



Step 6. Using a 7/16" open-end wrench, remove the pilot orifice by loosening the nut (see **Figure 5**) on the end of the pilot supply tube. Once the nut is removed, slide the nut down the tube, then pull the supply tube down no more than 1/2" out of the fitting and orifice will fall out. Once the orifice is out, discard it and put the new one in, then reinstall the nut.



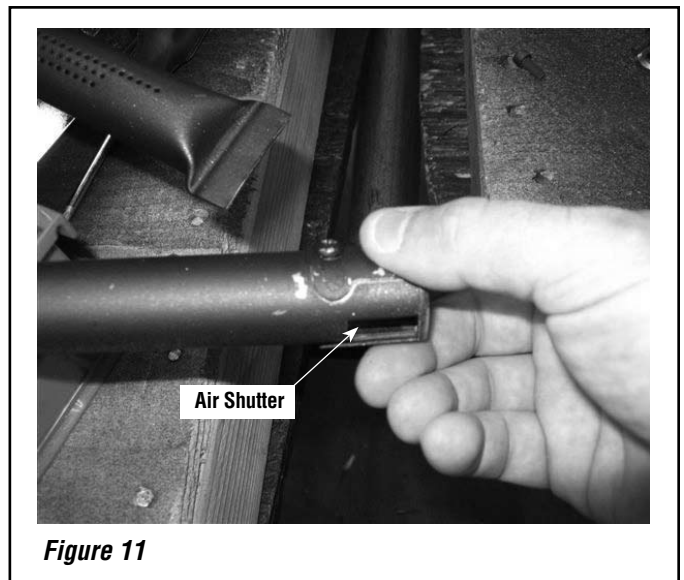
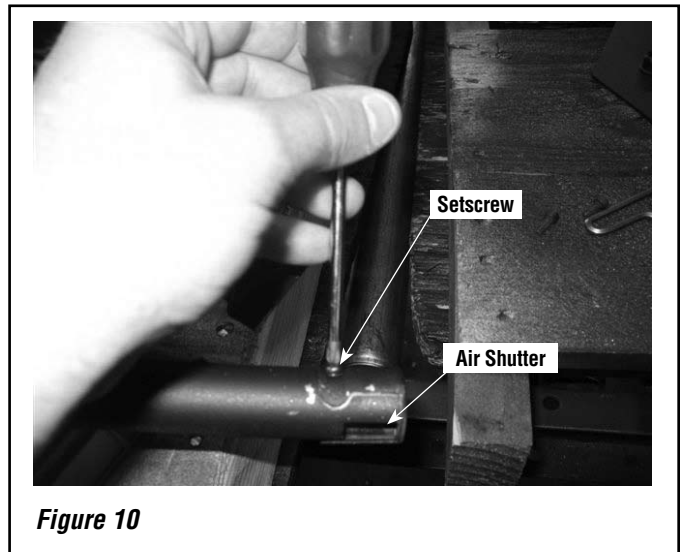
Step 7. Using a 3/4" open-end wrench, remove burner orifice. Replace with #49 LP orifice that is supplied in this kit. Make sure to use pipe sealing compound on threads of new orifice (see **Figure 9**).



Step 8. Adjust the air shutter as follows (see **Page 12** in the *Installation and Operation Manual*); The main burner has an adjustable air shutter located at the end of the burner (see **Figures 10 and 11**). Using a phillips screwdriver, loosen the air shutter setscrew just enough so the air shutter can be rotated by hand (See **Figures 10 and 11**).

The setscrew for the air shutter is secured tightly from the factory so that it does not rotate from the factory setting during shipping. Once you loosen the setscrew just enough so that it can be rotated by hand, then reinstall the burner tube, you will be able to access and adjust the air shutter from behind the right side panel to a 100% open gap for propane gas (below valve).

After step 12, with the appliance lit and fully warmed up, evaluate the burner flame appearance and re-adjust air shutter for proper flame appearance, if necessary.



Step 9. Turn on gas supply and test for gas leaks using a gas leak test solution (see *Test Procedure* on **Page 11** in the *Installation and Operation Manual*).

Step 10. Using a manometer, test the inlet and manifold gas pressure per instructions in the *Installation and Operation Manual* (**Page 11**) and as shown in the following 2 tables.

Inlet Gas Supply Pressure			
Fuel #	Minimum	Maximum	Desired
LP	10.5" WC/ps. C.E (2.62 kPa)	13.0" WC/ps. C.E (3.23 kPa)	11" WC/ps. C.E (2.74 kPa)

Manifold Gas Supply Pressure		
Fuel #	Low	High
LP	(Lo) 5.4" WC/ps. C.E (1.35 kPa)	(Hi) 10.0" WC/ps. C.E (2.49 kPa)

Step 11. Reinstall the the log set and glass door assembly. See **Pages 9 and 10** (*Log Set Installation*) and **Page 18** (*Door Assembly Installation*) in the *Installation and Operation Manual*.

Step 12. Light the appliance per the lighting instructions label on appliance (when viewing the insert from the front, it is located behind the right side door, on the right) or lighting instructions on **Page 13** in the *Installation and Operation Manual*. Inspect for proper pilot and burner flame appearances. See *Flame Color and Behavior* on **Page 14** and *Inspect The Pilot System For Proper Flame* on **Page 16** in the *Installation and Operation Manual*. Also see **Figures 12 and 13**.

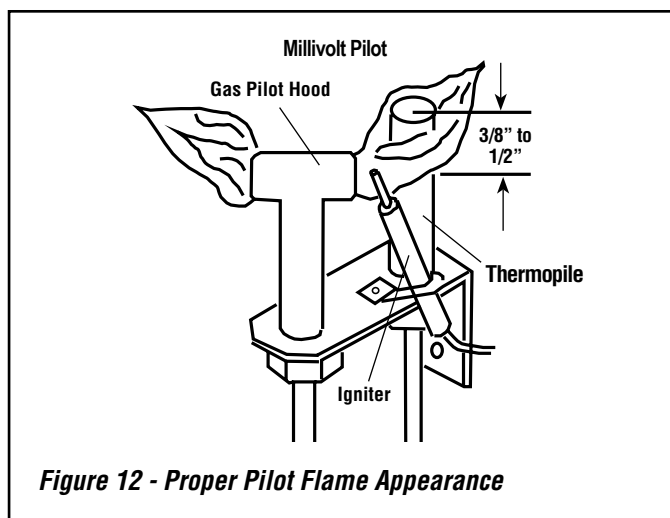


Figure 12 - Proper Pilot Flame Appearance

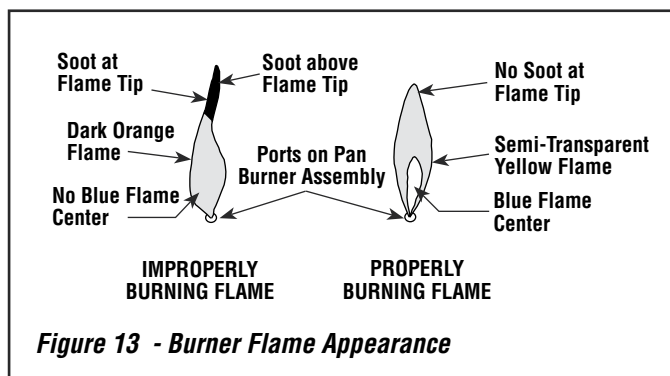


Figure 13 - Burner Flame Appearance

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