



HEARTH PRODUCTS

HEARTH PRODUCTS  
KITS AND ACCESSORIES

775,241M  
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RAVELLE 42™ GAS CONVERSION INSTRUCTIONS LP TO NG  
CAT. NO. 75095, MODEL RAVL42-CK-LP TO NG

**INSTALLATION INSTRUCTIONS FOR CONVERTING FROM PROPANE GAS (LP) TO  
NATURAL GAS (NG). FOR USE WITH THE RAVELLE 42 DIRECT VENT GAS FIREPLACE**

DAVE LENNOX  
*signature*  
COLLECTION

**KIT CONTENTS (See Figure 1):**

- 1 ea. Nova SIT NG Regulator Kit (A)
- 1 ea. #30 NG main burner orifice (42,000 BTU's) (B)
- 1 ea. Instruction Sheet

**TOOLS NEEDED (See Figure 2):**

- 5/32" Allen Wrench Or T-Handle Wrench
- Torx Bit (T20 with 1/4" shank and center hole)
- 1/2" Open End Wrench
- 7/16" Open End Wrench

Figure 1 - Kit Contents

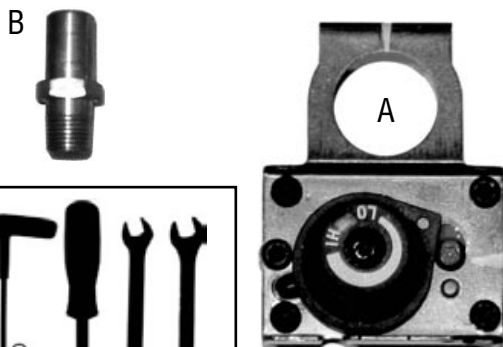
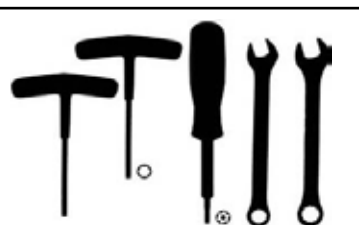


Figure 2 - Tools Needed



**! 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.**

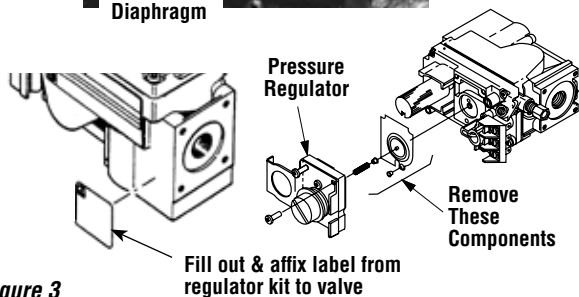
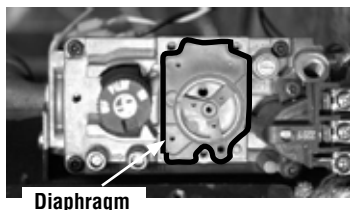
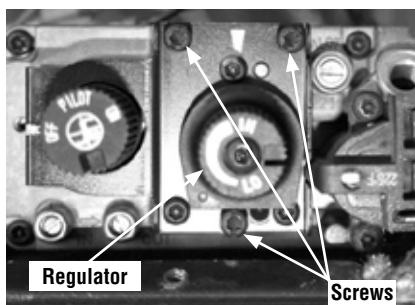
This kit contains components required to convert this appliance from using Propane Gas to using Natural Gas as the only fuel. All of these components must be replaced in order for the unit to operate safely on Natural Gas.

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

**TURN OFF THE GAS SUPPLY TO THE APPLIANCE.**

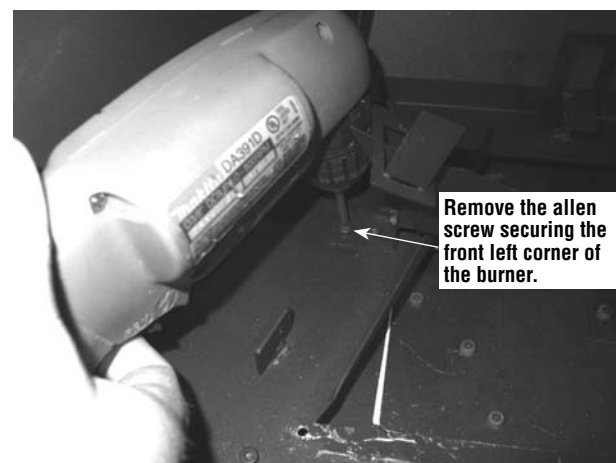
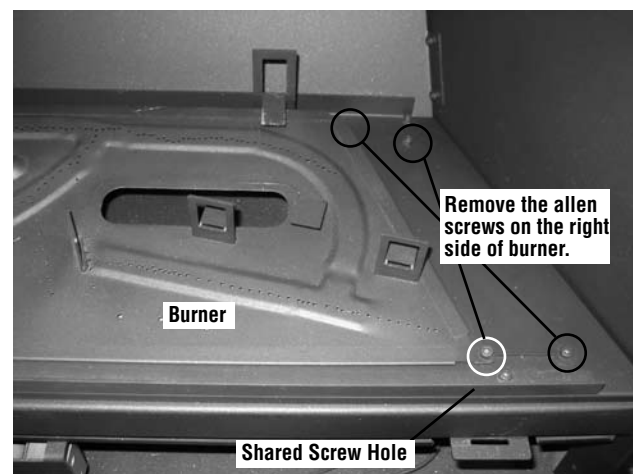
- Step 1.** Using a Torx T20 or flat screwdriver, remove the Nova SIT LP Regulator (flame height control) by removing the 3 screws surrounding it (see **Figure 3**). Be sure to also remove the LP regulator diaphragm (see **Figure 3**).
- Step 2.** Install the Nova SIT NG Regulator (included in this kit) using the 3 new screws provided as shown in **Figure 3**.



**Figure 3**

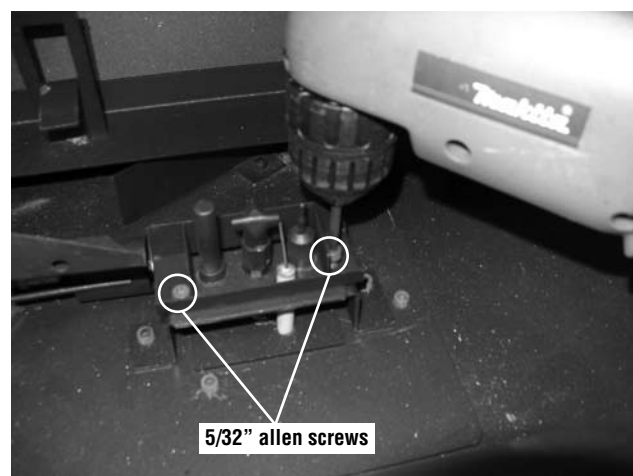
- Step 3** Remove the glass by releasing the two upper spring latches, and lifting up and out of the lower latches.
- Step 4** Remove the right side burner support by removing the four allen screws (see **Figure 4**). **Note: The right front corner of the burner shares a screw with the burner support.**
- Step 5** Remove the allen screw securing the front left corner of the burner.
- Step 6** Move the air shutter control lever all the way to the right (see **Figure 9**).

- Step 7** To remove the burner, slide the burner off the orifice and out of the air shutter by shifting the burner to the right.



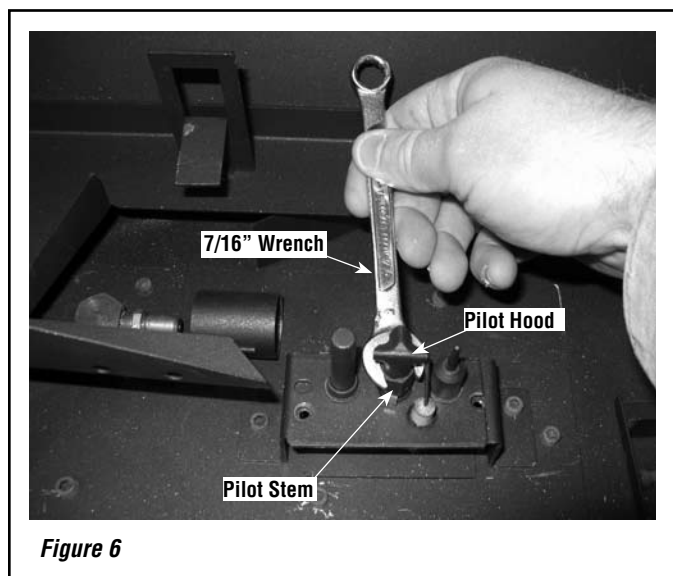
**Figure 4**

- Step 8** Remove the pilot shield by removing the two allen screws (see **Figure 5**).
- Step 9** Reinstall screws to secure pilot assembly for pilot orifice conversion.



**Figure 5**

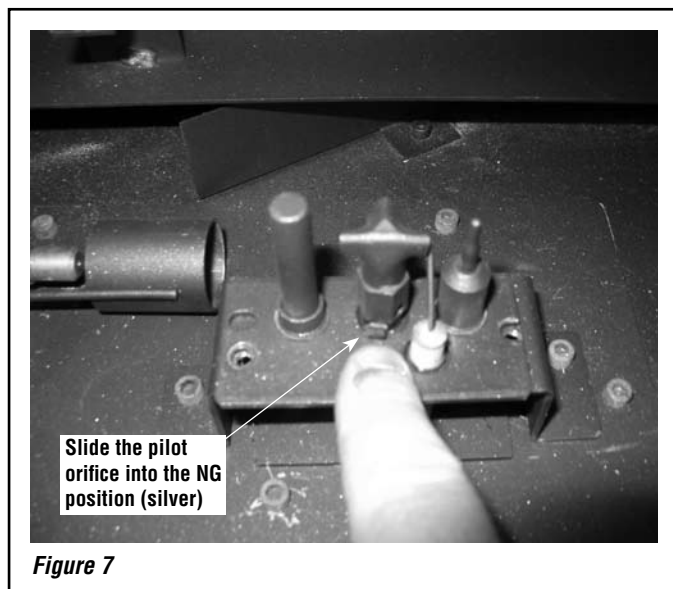
**Step 10** Using a 7/16" open-end wrench, loosen pilot stem a quarter of a turn to the left, counter-clockwise (see **Figure 6**).



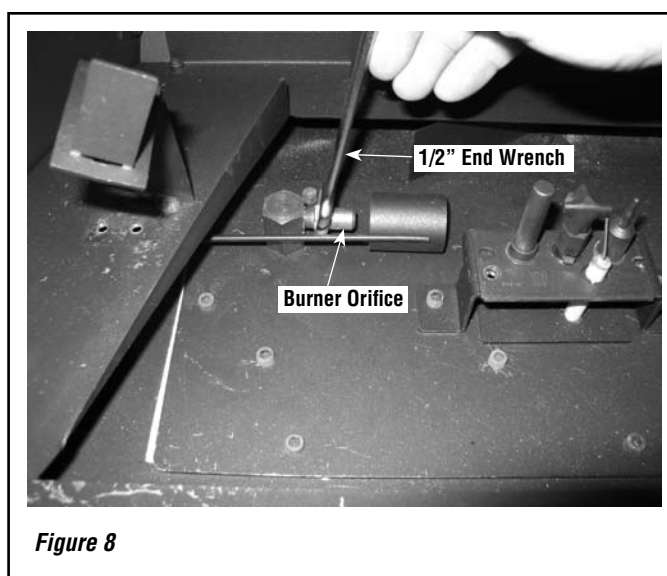
**Step 11** Slide the pilot orifice into the NG position by pushing it toward the opposite side of the pilot stem. The top side of the orifice slider should appear silver. The gas supply is now lined up with the NG pilot orifice (See **Figure 7**).

**Step 12** Tighten the pilot stem by turning it back to the right, making sure the orifice slider stays pushed into the NG position.

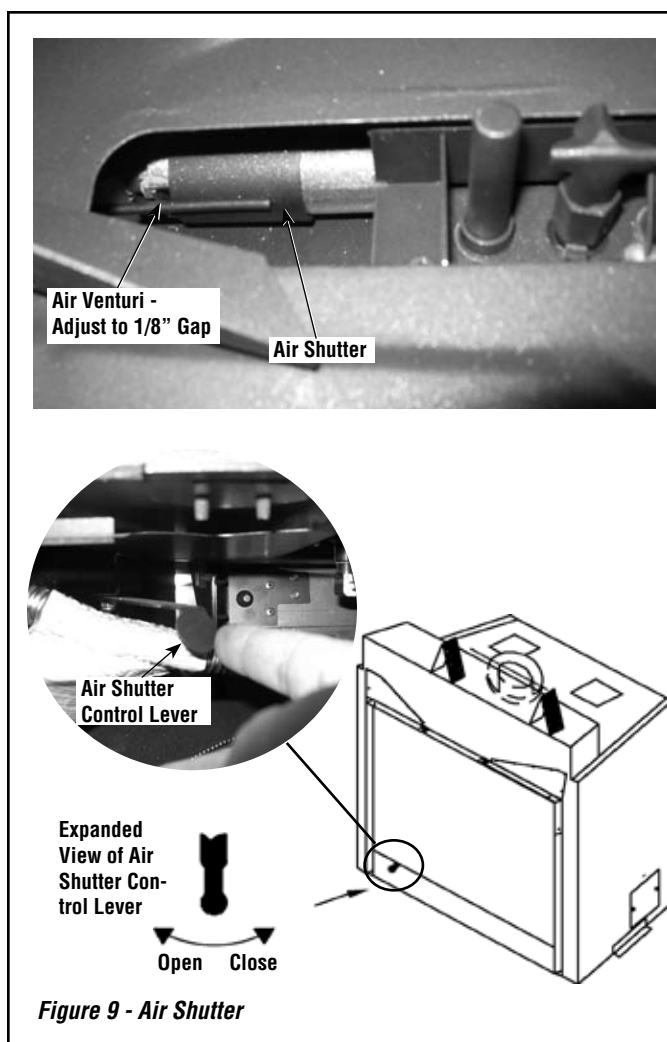
**Step 13 IMPORTANT: REINSTALL PILOT SHIELD**



**Step 14** Using a 1/2" open-end wrench, remove burner orifice (see **Figure 8**). Replace with #30 NG burner orifice using Teflon pipe sealant or pipe sealing compound.



**Step 15** Install burner, and make sure air shutter is 1/8" open. After Step 14, 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 16.** Turn on gas supply and test for gas leaks using a gas leak test solution (see *Test Procedure* on **Page 22** of the *Installation and Operation Manual*).

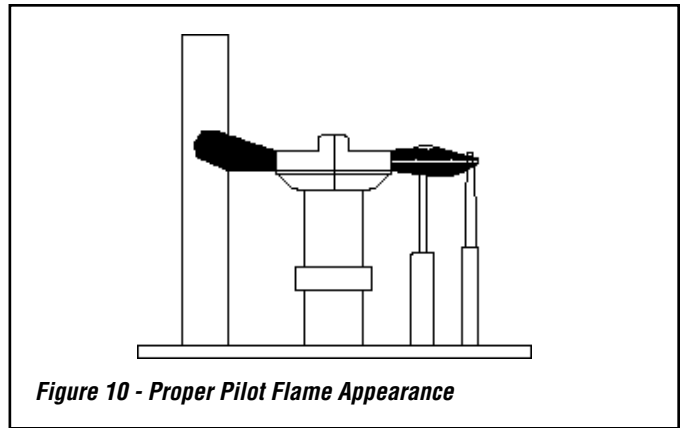
**Step 17.** Using a manometer, test the inlet and manifold gas pressure per instructions in the *Installation and Operation Manual* (**Page 22**) and as shown in the following 2 tables.

Inlet Gas Supply Pressure			
Fuel #	Minimum	Maximum	Desired
Nat. Gas	5" WC/po. C.E (1.24 kPa)	10.5" WC/po. C.E (2.61 kPa)	7" WC/po. C.E (1.74 kPa)

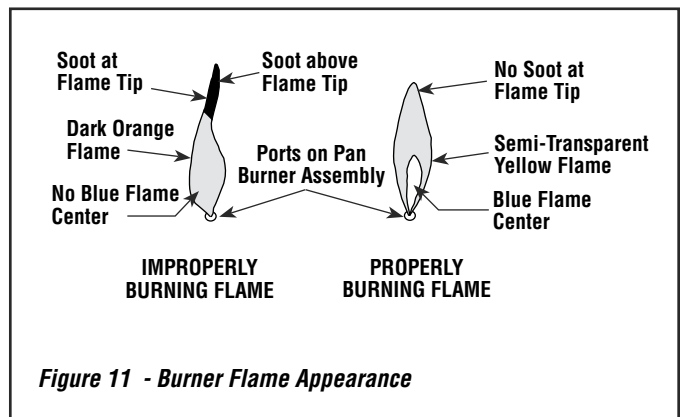
Manifold Gas Supply Pressure		
Fuel #	Low	High
Natural Gas	(Lo) 1.7" WC/po. C.E (0.42 kPa)	(Hi) 3.5" WC/po. C.E (0.87 kPa)

**Step 18.** Reinstall the log set and glass door assembly. See **Page 20** (*Log Set Installation*) and **Page 34** (*Door Assembly Installation*) in the *Installation and Operation Manual*.

**Step 19.** Light the appliance per the lighting instructions label on appliance (located below glass door) or lighting instructions on **Page 28** of the *Installation and Operation Manual*. Inspect for proper pilot and burner flame appearances (see **Figures 10 and 11**). Also see *Flame Color and Behavior* and *Inspect The Pilot System For Proper Flame* on **Page 29** of the *Installation and Operation Manual*.



**Figure 10 - Proper Pilot Flame Appearance**



**Figure 11 - Burner Flame Appearance**

NOTE: DIAGRAMS AND ILLUSTRATIONS ARE NOT TO SCALE.

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