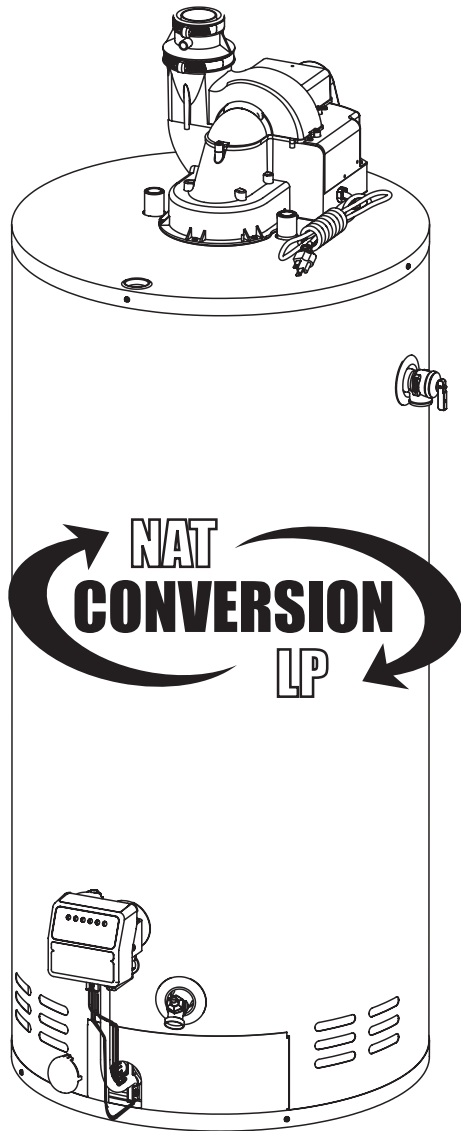


CONVERSION KIT FOR RESIDENTIAL POWER VENT GAS-FIRED WATER HEATERS

(PV1 Models only)

CONVERSION MANUAL



⚠ 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. The information in these instructions must be followed to minimize the risk of fire or explosion or to prevent property damage, personal injury or death. The qualified service agency is responsible for the proper installation of the conversion 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 the water heater.

CAUTION

THE CONVERSION SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION AND WITH LOCAL CODES OR, IN THEIR ABSENCE, WITH THE LATEST EDITION OF THE NATURAL GAS AND PROPANE INSTALLATION CODE CSA B149.1 IN CANADA OR THE NATIONAL FUEL GAS CODE ANSI Z223.1 IN THE UNITED STATES.

IMPORTANT

READ THESE INSTRUCTIONS CAREFULLY BEFORE BEGINNING THE INSTALLATION. PROPER INSTALLATION WILL PROVIDE SAFE & EFFICIENT SERVICE AND AVOID NEEDLESS EXPENSES NOT COVERED BY THE WARRANTY. READ THE PRODUCT WARRANTY IN THE OWNER'S MANUAL AND REMEMBER TO FILL OUT AND RETURN TO THE MANUFACTURER ALL RELEVANT WARRANTY CARDS AND CERTIFICATES. SHOULD YOU HAVE ANY QUESTIONS, PLEASE CONTACT YOUR LOCAL DEALER OR REFER TO THE **GETTING SERVICE FOR YOUR WATER HEATER** SECTION OF THE OWNER'S MANUAL.
SAVE THIS CONVERSION MANUAL FOR FUTURE REFERENCES.

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WARNING

Before putting the water heater into operation, verify that the type of gas supplied to your water heater and the type of gas your water heater is set to burn are the same. If they are not, refer to these instructions.

Kit Content

- One (1) gas control
- One (1) burner assembly
- One (1) Temperature high limit switch (only for UG60 models)
- One (1) conversion manual
- Two (2) conversion labels (French and English)
- One (1) conversion rating plate

Specifications

Kit Number	Conversion Type		Input (BTU)	Main Burner Orifice	Manifold Pressure
	From	To			
06999014-A 	UG40-38LFPV1-P*U	UG40-40LFPV1-N*U	40,000	#32	4.0" wc
06999015-A 	UG40-40LFPV1-N*U	UG40-38LFPV1-P*U	38,000	1.8 mm	10.0" wc
06999016-A 	UG50-38LFPV1-P*U	UG50-40LFPV1-N*U	40,000	#32	4.0" wc
06999017-A 	UG50-40LFPV1-N*U	UG50-38LFPV1-P*U	38,000	1.8 mm	10.0" wc
06999018-A 	UG60-38MFPV1-P2U	UG60-40MFPV1-N2U	40,000	3.0 mm	4.0" wc
06999019-A 	UG60-40MFPV1-N2U	UG60-38MFPV1-P2U	38,000	#48	10.0" wc

NOTE: Make sure that the model number on the rating plate of your water heater corresponds exactly to one of the model number in the table.
 * : Could either be number "1" or "2"

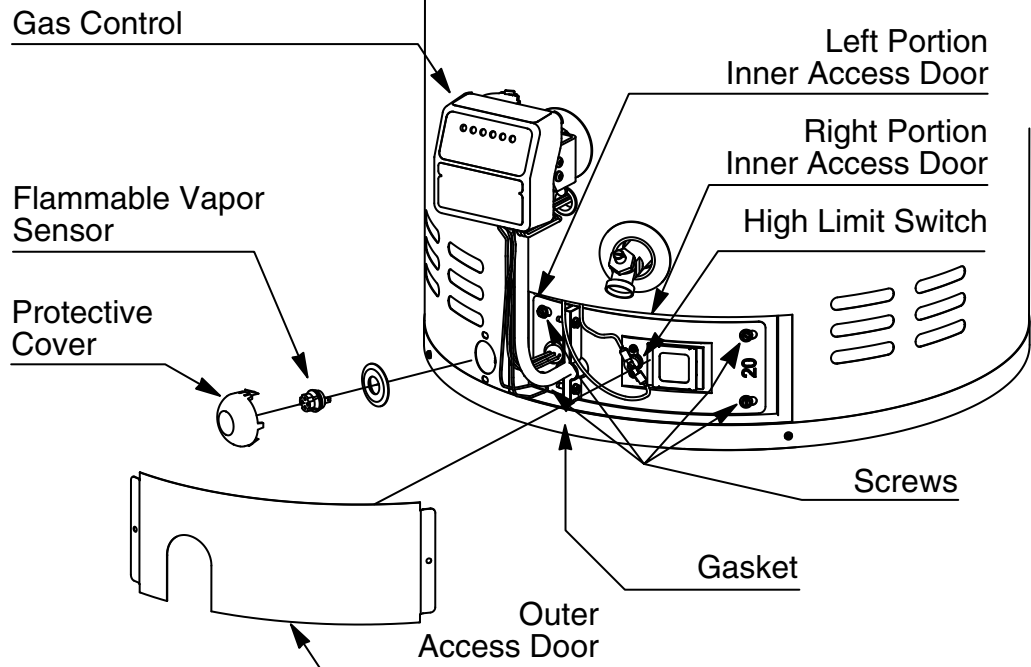
Step-by-Step Procedure for Water Heater Conversion



**Follow these instructions for
 a Natural gas to Propane gas
 AND Propane gas to Natural gas conversion**

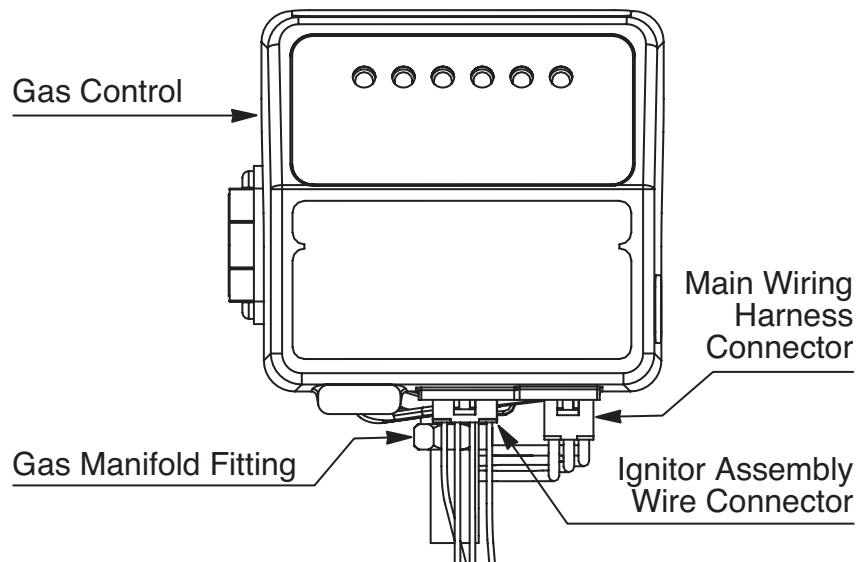
1. Shut down your water heater by unplugging the blower unit power cord from the wall receptacle.
2. Turn "OFF" the gas supply.
3. Drain the water heater completely. Refer to the "Draining the water heater" section in the Owner's Manual.
4. Remove the outer access door to the combustion chamber (**see Figure 1**).
5. Disconnect the ignitor assembly wire connector from the gas control (**see Figure 2**).
6. Disconnect the main wiring harness connector from the gas control (**see Figure 2**).
7. Disconnect the two (2) wires from the high limit switch on access door (**see Figure 1**).
8. Disconnect the two (2) wires from the ignitor assembly to the flammable vapor sensor by removing the protective cover and the flammable vapor sensor (**see Figures 1 and 3**).

Figure 1



9. Remove the right portion of the inner access door to the combustion chamber by:
A - Removing the two (2) screws on the right side of the door.
B - Removing the two (2) screws joining the two (2) access doors together (**see Figure 1**).
10. Remove the left portion of the inner access door to the combustion chamber by removing the two (2) screws on the left side of the door (**see Figure 1**).
11. Unscrew the gas manifold fitting from the gas control (**see Figure 2**).
12. Remove the burner assembly from the combustion chamber.

Figure 2





**Follow these instructions for
a Natural gas to Propane gas
conversion**

(Kit No. 06999015-A, 06999017-A and 06999019-A)

13. Unscrew the natural gas control and replace it with the propane gas control supplied in the conversion kit (**see Figure 1**).
14. **For UG60-40MFPV1-N2U Only (Kit No 06999019-A)**
Replace high temperature limit switch set at 270°F (132°C) located on the right portion of the inner access door by the high temperature limit switch set at 240°F (115°C) supplied in the kit (**see Figure 1**).
15. Put the propane gas burner assembly, supplied in the kit, back into the combustion chamber ensuring that the flat end of the manifold tube is inserted in the slot of the manifold bracket welded in the combustion chamber.



**Follow these instructions for
a Propane gas to Natural gas
conversion**

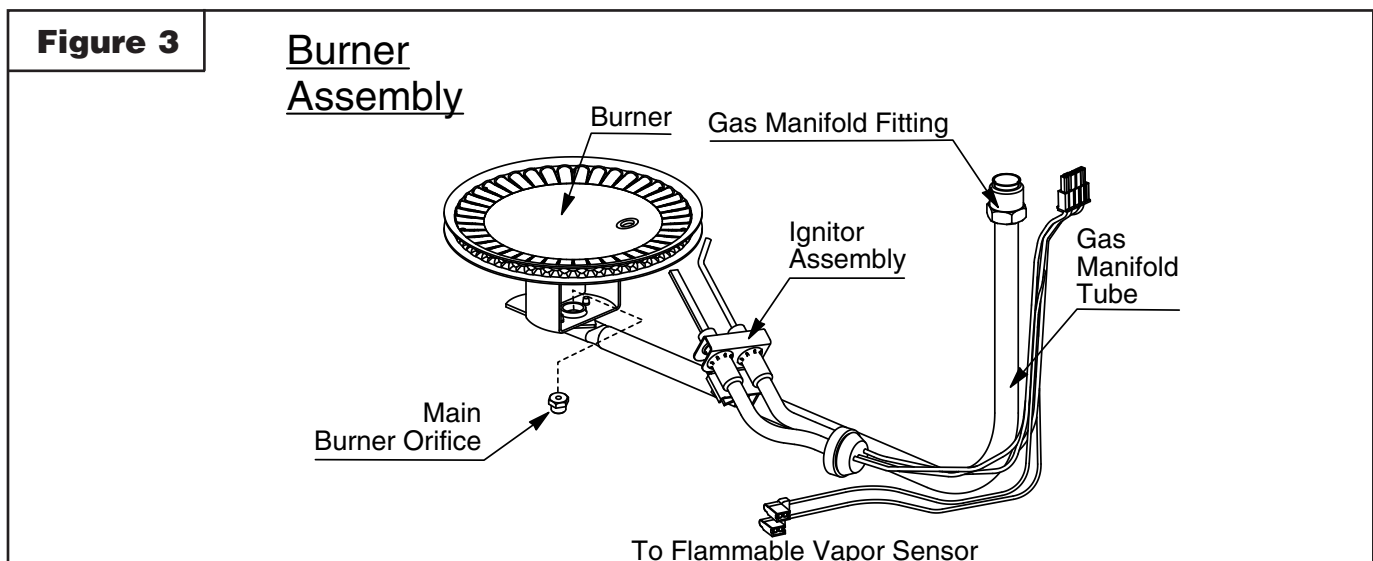
(Kit No. 06999014-A, 06999016-A and 06999018-A)

13. Unscrew the propane gas control and replace it with the natural gas control supplied in the conversion kit (**see Figure 1**).
14. **For UG60-38MFPV1-P2U Only (Kit No 06999018-A)**
Replace high temperature limit switch set at 240°F (115°C) located on the right portion of the inner access door by the high temperature limit switch set at 270°F (132°C) supplied in the kit (**see Figure 1**).
15. Put the natural gas burner assembly, supplied in the kit, back into the combustion chamber ensuring that the flat end of the manifold tube is inserted in the slot of the manifold bracket welded in the combustion chamber.

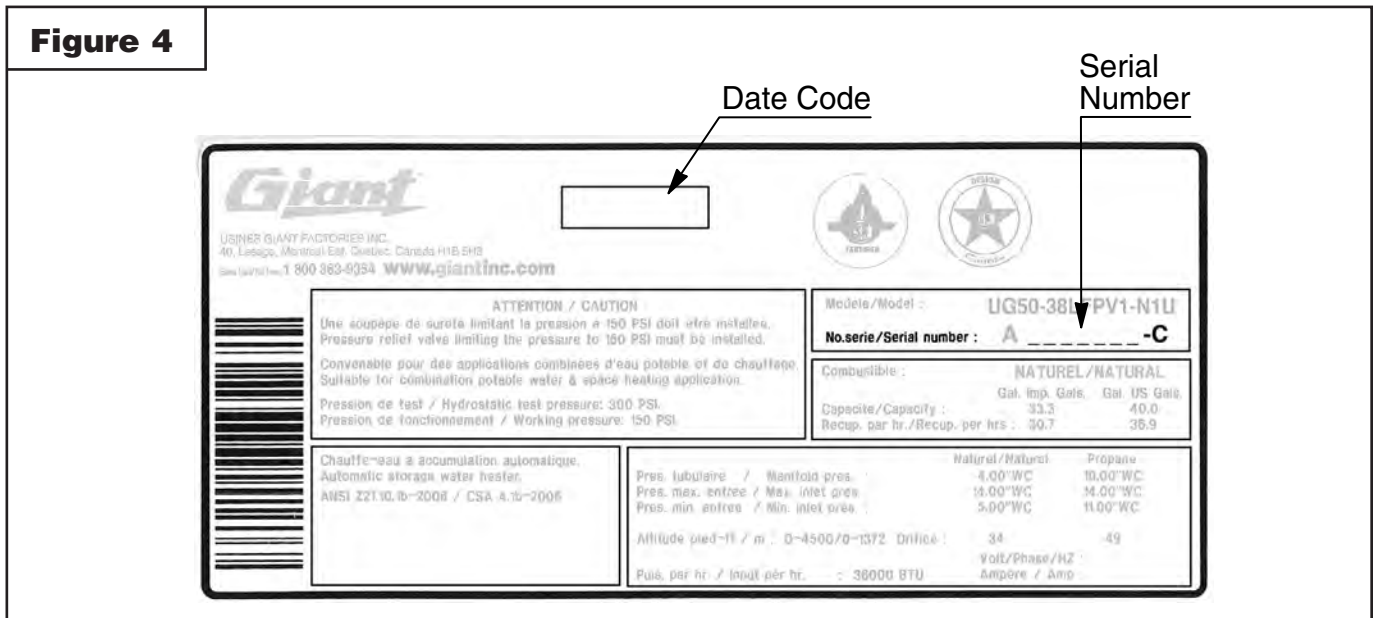


**Follow these instructions for
a Natural gas to Propane gas
AND Propane gas to Natural gas conversion**

16. Screw the gas manifold fitting into the gas control (**see Figure 2**).
17. Inspect the gasket on the interior side of the inner access doors for damage. If damaged, replace the inner access door(s) (**see Figure 1**).
18. Install the left portion of the inner access door to the combustion chamber (**see Figure 1**).
19. Install the right portion of the inner access door to the combustion chamber (**see Figure 1**).
20. Connect the main wiring harness connector to the gas control (**see Figure 2**).
21. Connect the ignitor assembly wire connector to the gas control (**see Figure 2**).



22. Connect the two (2) wires to the high limit switch on the access door (see Figure 1).
23. Connect the two (2) wires from the ignitor assembly to the flammable vapor sensor and re-install the flammable vapor sensor and protective cover (see Figures 1 and 3).
24. Install the outer access door to the combustion chamber (see Figure 1).
25. Transcribe the serial number and the date code from the rating plate on your water heater to the rating plate supplied in the conversion kit (see Figure 4).
26. Apply this new rating plate **OVER** the original one on the water heater.
27. Attach the conversion label to the outside of the water heater near the rating plate. The label should be filled out and signed by a qualified installer or service organization (see Figure 5).
28. Fill the water heater with water.
29. Keep the unused parts for possible future conversions.
30. It is highly recommended that a combustion analysis be taken and that firing rate be checked to make sure that the water heater is operating safely.



Leak Testing the Gas Connections

You **MUST** leak test the gas connections before placing the water heater in operation.

- Light the water heater as outlined in the Owner's Manual.
- Using a soap and water solution or leak test solution, test all of the gas connections to the gas control by spraying the solution on them. The appearance of bubbles means that there is a leak. If this occurs, tighten the connection and re-test. Please, make sure not to wet the wires of the ignitor.

Markings

The conversion label provided in this kit **MUST BE** filled out and placed on the water heater next to the rating plate when the conversion is made, as specified in point 27 on page 5 (see Figure 5).

The rating plate provided in this conversion kit **MUST BE** filled out with the date code and serial number from the original rating plate on the water heater. Then, this new rating plate **MUST BE** placed over the original one on the water heater as specified in point 25 on page 5.

Figure 5

CONVERSION LABEL

Refer to the "GAS CONVERSION INSTRUCTIONS" on the water heater for important information on the conversion of this water heater.

This water heater was converted

on _____ to _____ Gas
(day/month/year)

by: _____

(name and address of organization making this conversion,
who accepts the responsibility for the correctness of this conversion).

Affix this conversion label as close as possible to the existing rating plate.

Conversion Checklist

- Did you install the new burner assembly in the combustion chamber?
- Did you change the gas control?
- Did you inspect the gasket on the inner access doors?
- Did you leak test all of the gas connections?
- Did you fill the tank with water?
- Did you transcribe the appropriate informations (date code and serial number) on the supplied rating plate and place it **OVER** the old one on the water heater?
- Did you fill out and placed the conversion label next to the rating plate on the water heater?