

# Gas Conversion Kits and Instructions

INSTALLATION FORM RZ 405-GC

**REZNOR** *Thomas & Betts*

APPLIES TO:

Model CAUA

All gas conversion must be done by a qualified service person in accordance with these instructions and in compliance with all codes and requirements. In Canada, gas 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/CGA-B149.1 and .2 installation code.

**WARNING: Improper installation, adjustment, alteration, service, or maintenance can cause property damage, injury, or death. For assistance or additional information, consult a qualified installer, service agency, or the gas supplier.**

## FOR YOUR SAFETY

### What to do if you smell gas:

- Do not try to light any appliance.
- Do not touch any electrical switch; do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call your fire department.

## FOR YOUR SAFETY

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

**DANGER:** The conversion kit is to be selected and installed by a qualified service person in accordance with these instructions and in compliance with all codes and requirements of authorities having jurisdiction. Failure to follow instructions could result in death, serious injury and/or property damage. The qualified agency performing this work assumes responsibility for this conversion.

## Description and Kit Selection

The gas conversion kits in these instructions are for Model CAUA heaters equipped with either a single-stage or a two-stage valve. The kits are for operation at sea level. See pages 4-7 for conversion kit components. See page 8 for high altitude burner orifices.

In order to verify which conversion kit is compatible to your heater, it is necessary to know the type of valve that is on the heater. This information is determined by decoding the heater serial number. From the rating plate, copy the complete Model and Serial No. of the heater. Also, copy the manufacturer's number found on the gas valve.

Follow the example below to decode the Serial No.

### Example: Heater Serial No. BAA77M6N12345

BAA	77	M6	N	12345
Month and Year of Manufacture	Safety Pilot Code (Type of Ignition)	Type of Valve	Type of Gas*	Consecutive Number

\* N = Natural Gas; L = Propane Gas

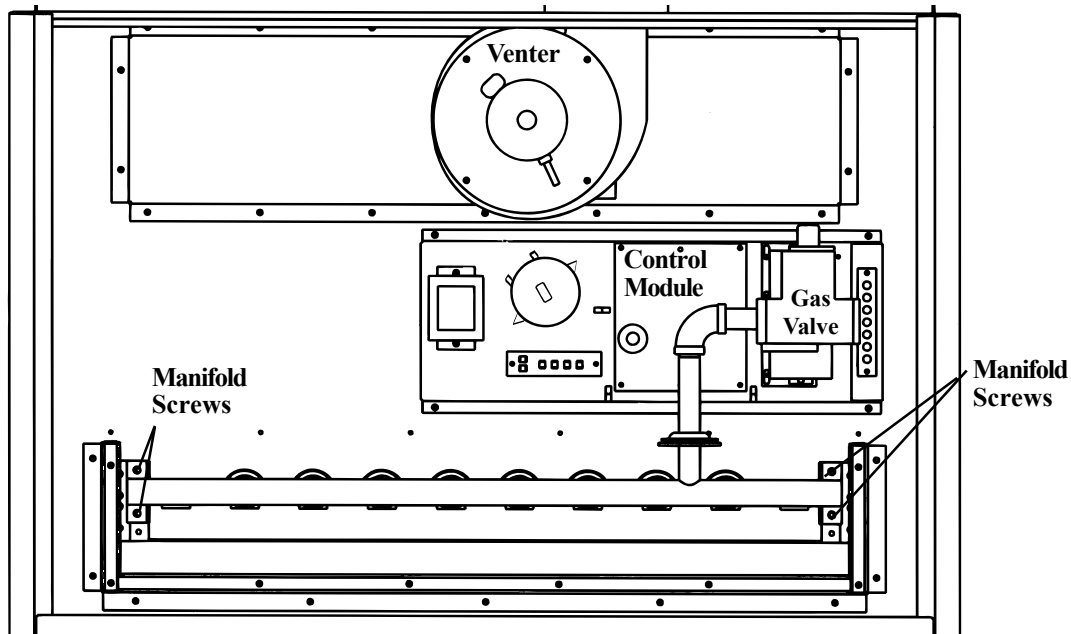
**IMPORTANT:** Because the serial number code can only identify the original equipment, after the kit is selected, match the actual Model No. of the valve to the one listed for that kit. If the actual Model No. is different from the one listed, contact your Reznor Representative to select and verify parts required for gas conversion.

**DANGER:** The gas burner in this gas-fired equipment is designed and equipped to provide safe and economically controlled complete combustion. However, if the installation does not permit the burner to receive the proper supply of combustion air, complete combustion may not occur. The result is incomplete combustion which produces carbon monoxide, a poisonous gas that can cause death.

Safe operation of indirect-fired gas burning equipment requires a properly operating vent system which vents all flue products to the outside atmosphere. **FAILURE TO PROVIDE PROPER VENTING WILL RESULT IN A HEALTH HAZARD WHICH COULD CAUSE SERIOUS PERSONAL INJURY OR DEATH.** If installed as a separated-combustion system, install either the horizontal or vertical combustion air/vent system illustrated in the heater installation manual, using the concentric adapter supplied. All installations must comply with the combustion air requirements in the installation codes and instructions. Units installed in a confined space must be supplied with air for combustion and ventilation as required by Code and in the heater installation manual. Combustion air at the burner should be regulated only by manufacturer-provided equipment. **NEVER RESTRICT OR OTHERWISE ALTER THE SUPPLY OF COMBUSTION AIR TO ANY HEATER. MAINTAIN THE VENT SYSTEM IN PROPERLY OPERATING CONDITION.**

**Figure 1 - View of Model CAUA Control Compartment with Access Panel and All Sections of Burner Cover Removed**

(Wires are not illustrated.)



## Gas Conversion Instructions

1. **Check kit contents for agreement with the parts list.** Parts lists are on pages 4-7.

The kits listed in this manual are intended for use on units that will be operated at sea level. Conversion of a unit using these kits will not alter the input rate. Refer to the rating plate on the heater for input rate and other appropriate information. High altitude burner orifices are listed on page 8.

2. Turn off the gas supply at a shutoff valve upstream of the combination valve and turn off the electrical supply. Open the control access panel.

3. **Install the Regulator Spring Kit or Change the Valve**

To install a regulator spring conversion kit (**applies to kits for heaters with single-stage valve**), follow the valve manufacturer's installation instructions that are included with the regulator spring kit. After a new spring kit is installed, it is necessary to adjust the spring for the correct manifold pressure. This adjustment can only be made after the heater is in operation. Instructions are included in Step No. 7.

**WARNING: The manufacturer of the regulator spring kit and the gas valve must be the same. Spring kits of different manufacturers are not interchangeable, and each spring kit must be used only in the valve for which the kit is designated.**

To change the valve (**applies to kits for heaters with 2-stage valve**):

- 1) Mark the wires and disconnect them from the existing valve. Disconnect and remove the valve.

- 2) On the new valve, locate the port labeled "pilot". Since the Model CAUA does not have a pilot, this hole must be plugged. Use the brass plug in the kit to plug the port.
- 3) Connect the inlet side of the valve to the gas supply line. (Do not connect the valve to the manifold until after the orifices are changed.)

**WARNING: The operating valve is the primary safety shutoff. The gas supply line must be free of dirt or scale before connecting the unit.**

- 4) Connect the wires as marked; verify connections with the unit wiring diagram. Consult the valve manufacturer's literature for details concerning the valve.

4. **Install Burner Orifices**

**WARNING: Do not attempt to drill orifices. Use factory-supplied orifices only.**

NOTES: Kits that apply to various sizes of heaters include the quantity of burner orifices required for the largest size of heater. When converting the smaller sizes, there will be extra burner orifices which will not be used.) Burner orifices in these kits apply to sea level operation only. See Burner Orifice Chart, page 8.

- 1) Remove all burner cover sections. Depending on when the unit was manufactured, there will be either two or three sections. If two, there will be a right and a left section which extend over the front. If three, there will be a right, a left, and a separate front section.
- 2) If the manifold is still connected to the valve, disconnect the valve.

- 3) Remove the screws that retain the manifold and control assembly (See Figure 1).
- 4) With the manifold and control assembly removed from the heater, unscrew all of the existing orifices and replace with the orifices included in the conversion kit.

#### 5. Re-Assemble the Heater

Reverse the procedure in Step 4 to re-assemble the heater. NOTE: When converting Sizes 150 and 200 with a two-stage valve from natural to propane, use the 3/4" to 1/2" reducing bushing to connect the valve. Be certain that the manifold is positioned properly in relationship to the burner rack.

Attach the conversion disk to the heater near the gas valve.

6. Turn on the electric and the gas. Relight, following the instructions on the heater. Check for gas leaks using a commercial leak detecting fluid or a rich soap and water solution. Leaks are indicated by the presence of bubbles. Check all connections which were worked on during the conversion. If a leak cannot be stopped by tightening, replace the part.

#### 7. Adjust the Manifold Pressure

Follow these requirements and instructions to adjust the manifold gas pressure:

**Natural Gas** - The regulator in the valve must be adjusted to provide a manifold pressure of 3.5" w.c. Inlet pressure to the valve must be a minimum of 5" w.c. (or as noted on the rating plate) and a maximum of 14" w.c.

**Propane Gas** - The regulator in the valve must be adjusted to provide a manifold pressure of 10" w.c. Inlet pressure to the valve must be a minimum of 11" w.c. and a maximum of 14" w.c.

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**WARNING: Manifold gas pressure must never exceed 3.5" w.c. for natural gas or 10" w.c. for propane gas.**

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#### Instructions for Adjusting Manifold Pressure:

Before attempting to measure or adjust the manifold gas pressure, be certain that the inlet (supply) pressure is within the specified range for the gas being used both when the heater is in operation and on standby. Incorrect inlet pressure could cause excessive manifold gas pressure immediately or at some future time.

- 1) With the manual valve positioned to prevent flow to the main burners, connect a manometer to the 1/8" pipe outlet pressure tap in the valve. NOTE: A manometer (fluid-filled gauge) is recommended rather than a spring type gauge due to the difficulty of maintaining calibration of a spring type gauge.
  - 2) Open the valve and operate the heater. Measure the gas pressure to the manifold. If adjustment is necessary, set pressure to correct settings by turning the regulator screw IN (clockwise) to increase pressure. Turn regulator screw OUT (counterclockwise) to decrease pressure.
8. Check for safe and proper operation of the heater by operating the heater for at least one cycle. Observe main burners for complete flame carryover.

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**WARNING: Wait at least five minutes before attempting to relight the heater in the event of improper ignition.**

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9. Complete the information required on the gas conversion tape and affix the tape to the heater near the rating plate. Close the access door.

## Conversion Kit Components - Natural to Propane

The first six kits listed are for heaters with single-stage valves and include a spring conversion kit. The second six are for heaters with two-stage valves and require a complete valve change. The burner orifices in these kits are for sea-level operation only. For high altitude installation, see the Burner Orifice Chart on page 8. All kits include the quantity of orifices required for the largest size of heater. Excess burner orifices may not be returned for credit.

### Natural to Propane Gas Conversion Kits for Model CAUA with a single-stage gas valve operated at sea level

<b>Natural TO Propane Conversion Kit, P/N 170813</b>		
<b>Applies to Model CAUA 150</b>		
<b>Equipped with</b>		
<b>Ignition Type</b>	<b>1-Stage Valve</b>	
<b>Serial No. Code</b>	<b>Serial No. Code</b>	<b>Manufacturer's No.</b>
<b>73, 76, or 77</b>	<b>Q3</b>	<b>M/H VR8304-M 2816</b>
<b>Components:</b>		
<b>Qty</b>	<b>P/N</b>	<b>Description</b>
1	98720	Spring Regulator Kit, M/H 393691
8	97359	Burner Orifice, 1.25 mm
1	64391	Conversion Tape
1	37752	Propane Gas Disk
<b>CK170813 (Replaces CK75)</b>		

<b>Natural TO Propane Conversion Kit, P/N 170816</b>		
<b>Applies to Model CAUA 300</b>		
<b>Equipped with</b>		
<b>Ignition Type</b>	<b>1-Stage Valve</b>	
<b>Serial No. Code</b>	<b>Serial No. Code</b>	<b>Manufacturer's No.</b>
<b>73, 76, or 77</b>	<b>M6</b>	<b>W/R 36C68-452</b>
<b>Components:</b>		
<b>Qty</b>	<b>P/N</b>	<b>Description</b>
1	82524	Spring Regulator Kit, W/R F92-0659
15	11830	Burner Orifice, #55
1	64391	Conversion Tape
1	37752	Propane Gas Disk
<b>CK170816 (Replaces CK78)</b>		

<b>Natural TO Propane Conversion Kit, P/N 170814</b>		
<b>Applies to Model CAUA 200</b>		
<b>Equipped with</b>		
<b>Ignition Type</b>	<b>1-Stage Valve</b>	
<b>Serial No. Code</b>	<b>Serial No. Code</b>	<b>Manufacturer's No.</b>
<b>73, 76, or 77</b>	<b>Q3</b>	<b>M/H VR8304-M</b>
<b>Components:</b>		
<b>Qty</b>	<b>P/N</b>	<b>Description</b>
1	98720	Spring Regulator Kit, M/H 393691
10	11830	Burner Orifice, #55
1	64391	Conversion Tape
1	37752	Propane Gas Disk
<b>CK170814 (Replaces CK76)</b>		

<b>Natural TO Propane Conversion Kit, P/N 170817</b>		
<b>Applies to Model CAUA 350</b>		
<b>Equipped with</b>		
<b>Ignition Type</b>	<b>1-Stage Valve</b>	
<b>Serial No. Code</b>	<b>Serial No. Code</b>	<b>Manufacturer's No.</b>
<b>73, 76, or 77</b>	<b>M6</b>	<b>W/R 36C68-452</b>
<b>Components:</b>		
<b>Qty</b>	<b>P/N</b>	<b>Description</b>
1	82524	Spring Regulator Kit, W/R F92-0659
12	9789	Burner Orifice, #53
1	64391	Conversion Tape
1	37752	Propane Gas Disk
<b>CK170817 (Replaces CK79)</b>		

<b>Natural TO Propane Conversion Kit, P/N 170815</b>		
<b>Applies to Model CAUA 250</b>		
<b>Equipped with</b>		
<b>Ignition Type</b>	<b>1-Stage Valve</b>	
<b>Serial No. Code</b>	<b>Serial No. Code</b>	<b>Manufacturer's No.</b>
<b>73, 76, or 77</b>	<b>M6</b>	<b>W/R 36C68-452</b>
<b>Components:</b>		
<b>Qty</b>	<b>P/N</b>	<b>Description</b>
1	82524	Spring Regulator Kit, W/R F92-0659
13	97359	Burner Orifice, 1.25 mm
1	64391	Conversion Tape
1	37752	Propane Gas Disk
<b>CK170815 (Replaces CK77)</b>		

<b>Natural TO Propane Conversion Kit, P/N 170818</b>		
<b>Applies to Model CAUA 400</b>		
<b>Equipped with</b>		
<b>Ignition Type</b>	<b>1-Stage Valve</b>	
<b>Serial No. Code</b>	<b>Serial No. Code</b>	<b>Manufacturer's No.</b>
<b>73, 76, or 77</b>	<b>M6</b>	<b>W/R 36C68-452</b>
<b>Components:</b>		
<b>Qty</b>	<b>P/N</b>	<b>Description</b>
1	82524	Spring Regulator Kit, W/R F92-0659
14	61653	Burner Orifice, 1.55mm
1	64391	Conversion Tape
1	37752	Propane Gas Disk
<b>CK170818 (Replaces CK80)</b>		

**Natural to Propane Gas Conversion Kits for Model CAUA with a two-stage gas valve operated at sea level**

<b>Natural TO Propane Conversion Kit, P/N 170824</b>		
<b>Applies to Model CAUA 150</b>		
<b>Equipped with</b>		
<b>Ignition Type</b>	<b>2-Stage Valve, either</b>	
<b>Serial No. Code</b>	<b>Serial No. Code</b>	<b>Manufacturer's No.</b>
73, 76, or 77	H5	W/R #36D13-208
	X2	H/W VR8204Q2418
<b>Components:</b>		
<b>Qty</b>	<b>P/N</b>	<b>Description</b>
1	177398	Gas Valve, VR8304Q4412 (2-stage)
1	37385	3/4" to 1/2" Reducing Bushing
1	107367	Brass Plug
8	97359	Burner Orifice, 1.25 mm
1	64391	Conversion Tape
1	37752	Propane Gas Disk
<b>CK170824 (Replaces CK86)</b>		

<b>Natural TO Propane Conversion Kit, P/N 170844</b>		
<b>Applies to Model CAUA 300</b>		
<b>Equipped with</b>		
<b>Ignition Type</b>	<b>2-Stage Valve, Either</b>	
<b>Serial No. Code</b>	<b>Serial No. Code</b>	<b>Manufacturer's No.</b>
73, 76, or 77	H6	W/R #36D13-405
	X3	H/W VR8304Q4404
<b>Components:</b>		
<b>Qty</b>	<b>P/N</b>	<b>Description</b>
1	177398	Gas Valve, VR8304Q4412 (2-stage)
1	107367	Brass Plug
15	11830	Burner Orifice, #55
1	64391	Conversion Tape
1	37752	Propane Gas Disk
<b>CK170844 (Replaces CK89)</b>		

<b>Natural TO Propane Conversion Kit, P/N 170825</b>		
<b>Applies to Model CAUA 200</b>		
<b>Equipped with</b>		
<b>Ignition Type</b>	<b>2-Stage Valve, either</b>	
<b>Serial No. Code</b>	<b>Serial No. Code</b>	<b>Manufacturer's No.</b>
73, 76, or 77	H5	W/R #36D13-208
	X2	H/W VR8204Q2418
<b>Components:</b>		
<b>Qty</b>	<b>P/N</b>	<b>Description</b>
1	177398	Gas Valve, VR8304Q4412 (2-stage)
1	37385	3/4" to 1/2" Reducing Bushing
1	107367	Brass Plug
10	11830	Burner Orifice, #55
1	64391	Conversion Tape
1	37752	Propane Gas Disk
<b>CK170825 (Replaces CK87)</b>		

<b>Natural TO Propane Conversion Kit, P/N 170827</b>		
<b>Applies to Model CAUA 350</b>		
<b>Equipped with</b>		
<b>Ignition Type</b>	<b>2-Stage Valve, Either</b>	
<b>Serial No. Code</b>	<b>Serial No. Code</b>	<b>Manufacturer's No.</b>
73, 76, or 77	H6	W/R #36D13-405
	X3	H/W VR8304Q4404
<b>Components:</b>		
<b>Qty</b>	<b>P/N</b>	<b>Description</b>
1	177398	Gas Valve, VR8304Q4412 (2-stage)
1	107367	Brass Plug
12	9789	Burner Orifice, #53
1	64391	Conversion Tape
1	37752	Propane Gas Disk
<b>CK170827 (Replaces CK90)</b>		

<b>Natural TO Propane Conversion Kit, P/N 170826</b>		
<b>Applies to Model CAUA 250</b>		
<b>Equipped with</b>		
<b>Ignition Type</b>	<b>2-Stage Valve, Either</b>	
<b>Serial No. Code</b>	<b>Serial No. Code</b>	<b>Manufacturer's No.</b>
73, 76, or 77	H6	W/R #36D13-405
	X3	H/W VR8304Q4404
<b>Components:</b>		
<b>Qty</b>	<b>P/N</b>	<b>Description</b>
1	177398	Gas Valve, VR8304Q4412 (2-stage)
1	107367	Brass Plug
13	97359	Burner Orifice, 1.25 mm
1	64391	Conversion Tape
1	37752	Propane Gas Disk
<b>CK170826 (Replaces CK88)</b>		

<b>Natural TO Propane Conversion Kit, P/N 170828</b>		
<b>Applies to Model CAUA 400</b>		
<b>Equipped with</b>		
<b>Ignition Type</b>	<b>2-Stage Valve, Either</b>	
<b>Serial No. Code</b>	<b>Serial No. Code</b>	<b>Manufacturer's No.</b>
73, 76, or 77	H6	W/R #36D13-405
	X3	H/W VR8304Q4404
<b>Components:</b>		
<b>Qty</b>	<b>P/N</b>	<b>Description</b>
1	177398	Gas Valve, VR8304Q4412 (2-stage)
1	107367	Brass Plug
14	61653	Burner Orifice, 1.55mm
1	64391	Conversion Tape
1	37752	Propane Gas Disk
<b>CK170828 (Replaces CK91)</b>		

## Conversion Kit Components - Propane to Natural

The first five kits listed are for heaters with single-stage valves and include a spring conversion kit. The second five are for heaters with two-stage valves and require a complete valve change. The burner orifices in these kits are for sea-level operation only. For high altitude installation, see the Burner Orifice Chart on page 8. All kits include the quantity of orifices required for the largest size of heater. Excess burner orifices may not be returned for credit.

### Propane to Natural Gas Conversion Kits for Model CAUA with a single-stage gas valve operated at sea level

Propane TO Natural Conversion Kit, P/N 170808		
Applies to Model CAUA 150		
Equipped with		
Ignition Type	1-Stage Valve	
Serial No. Code	Serial No. Code	Manufacturer's No.
73, 76, or 77	M7	M/H VR8204M1018
Components:		
Qty	P/N	Description
1	98721	Spring Conversion Kit, M/H #394588
8	164866	Burner Orifice, 2.1mm
1	64391	Conversion Tape
1	1401	Natural Gas Disk
<b>CK170808 (Replaces CK81)</b>		

Propane TO Natural Conversion Kit, P/N 170811		
Applies to Model CAUA 350		
Equipped with		
Ignition Type	1-Stage Valve	
Serial No. Code	Serial No. Code	Manufacturer's No.
73, 76, or 77	M8	W/R 36C68-325
Components:		
Qty	P/N	Description
1	82525	Spring Conversion Kit, W/R #92-0656
12	11835	Burner Orifice, #37
1	64391	Conversion Tape
1	1401	Natural Gas Disk
<b>CK170811 (Replaces CK84)</b>		

Propane TO Natural Conversion Kit, P/N 170809		
Applies to Model CAUA 200		
Equipped with		
Ignition Type	1-Stage Valve	
Serial No. Code	Serial No. Code	Manufacturer's No.
73, 76, or 77	M7	M/H VR8204M1018
Components:		
Qty	P/N	Description
1	98721	Spring Conversion Kit, M/H #394588
10	11833	Burner Orifice, #44
1	64391	Conversion Tape
1	1401	Natural Gas Disk
<b>CK170809 (Replaces CK82)</b>		

Propane TO Natural Conversion Kit, P/N 170812		
Applies to Model CAUA 400		
Equipped with		
Ignition Type	1-Stage Valve	
Serial No. Code	Serial No. Code	Manufacturer's No.
73, 76, or 77	M8	W/R 36C68-325
Components:		
Qty	P/N	Description
1	82525	Spring Conversion Kit, W/R #92-0656
14	45870	Burner Orifice, #38
1	64391	Conversion Tape
1	1401	Natural Gas Disk
<b>CK170812 (Replaces CK85)</b>		

Propane TO Natural Conversion Kit, P/N 170810		
Applies to Models CAUA 250 and CAUA 300		
Equipped with		
Ignition Type	1-Stage Valve	
Serial No. Code	Serial No. Code	Manufacturer's No.
73, 76, or 77	M8	W/R 36C68-325
Components:		
Qty	P/N	Description
1	82525	Spring Conversion Kit, W/R #92-0656
15	11833	Burner Orifice, #44
1	64391	Conversion Tape
1	1401	Natural Gas Disk
<b>CK170810 (Replaces CK83)</b>		

**Propane to Natural Gas Conversion Kits for Model CAUA with a two-stage gas valve operated at sea level**

<b>Propane TO Natural Conversion Kit, P/N 170819</b>		
<b>Applies to Model CAUA 150</b>		
<b>Equipped with</b>		
<b>Ignition Type</b>	<b>2-Stage Valve, Either</b>	
<b>Serial No. Code</b>	<b>Serial No. Code</b>	<b>Manufacturer's No.</b>
73, 76, or 77	M9	W/R 36D13-304
	X4	M/H VR8304Q4412
<b>Components:</b>		
<b>Qty</b>	<b>P/N</b>	<b>Description</b>
1	177396	Gas Valve, M/H VR8204Q2418 (2-stage)
1	107367	Brass Plug
8	164866	Burner Orifice, 2.1mm
1	64391	Conversion Tape
1	1401	Natural Gas Disk
<b>CK170819 (Replaces CK92)</b>		

<b>Propane TO Natural Conversion Kit, P/N 170822</b>		
<b>Applies to Model CAUA 350</b>		
<b>Equipped with</b>		
<b>Ignition Type</b>	<b>2-Stage Valve, Either</b>	
<b>Serial No. Code</b>	<b>Serial No. Code</b>	<b>Manufacturer's No.</b>
73, 76, or 77	M9	W/R 36D13-304
	X4	M/H VR8304Q4412
<b>Components:</b>		
<b>Qty</b>	<b>P/N</b>	<b>Description</b>
1	177397	Gas Valve, M/H VR8304Q4404 (2-stage)
1	107367	Brass Plug
12	11835	Burner Orifice, #37
1	64391	Conversion Tape
1	1401	Natural Gas Disk
<b>CK170822 (Replaces CK95)</b>		

<b>Propane TO Natural Conversion Kit, P/N 170820</b>		
<b>Applies to Model CAUA 200</b>		
<b>Equipped with</b>		
<b>Ignition Type</b>	<b>2-Stage Valve, Either</b>	
<b>Serial No. Code</b>	<b>Serial No. Code</b>	<b>Manufacturer's No.</b>
73, 76, or 77	M9	W/R 36D13-304
	X4	M/H VR8304Q4412
<b>Components:</b>		
<b>Qty</b>	<b>P/N</b>	<b>Description</b>
1	177396	Gas Valve, M/H VR8204Q2418 (2-stage)
1	107367	Brass Plug
10	11833	Burner Orifice, #44
1	64391	Conversion Tape
1	1401	Natural Gas Disk
<b>CK170820 (Replaces CK93)</b>		

<b>Propane TO Natural Conversion Kit, P/N 170823</b>		
<b>Applies to Model CAUA 400</b>		
<b>Equipped with</b>		
<b>Ignition Type</b>	<b>2-Stage Valve, Either</b>	
<b>Serial No. Code</b>	<b>Serial No. Code</b>	<b>Manufacturer's No.</b>
73, 76, or 77	M9	W/R 36D13-304
	X4	M/H VR8304Q4412
<b>Components:</b>		
<b>Qty</b>	<b>P/N</b>	<b>Description</b>
1	177397	Gas Valve, M/H VR8304Q4404 (2-stage)
1	107367	Brass Plug
14	45870	Burner Orifice, #38
1	64391	Conversion Tape
1	1401	Natural Gas Disk
<b>CK170823 (Replaces CK96)</b>		

<b>Propane TO Natural Conversion Kit, P/N 170821</b>		
<b>Applies to Models CAUA 250 and CAUA 300</b>		
<b>Equipped with</b>		
<b>Ignition Type</b>	<b>2-Stage Valve, Either</b>	
<b>Serial No. Code</b>	<b>Serial No. Code</b>	<b>Manufacturer's No.</b>
73, 76, or 77	M9	W/R 36D13-304
	X4	M/H VR8304Q4412
<b>Components:</b>		
<b>Qty</b>	<b>P/N</b>	<b>Description</b>
1	177397	Gas Valve, M/H VR8304Q4404 (2-stage)
1	107367	Brass Plug
15	11833	Burner Orifice, #44
1	64391	Conversion Tape
1	1401	Natural Gas Disk
<b>CK170821 (Replaces CK94)</b>		

## Burner Orifice Chart - Model CAUA

The gas conversion kits on pages 4-7 include the standard sea level burner orifices. NOTE: Elevations above 4000 ft require pressure switch change.

Model CAUA			150	200	250	300	350	400	
BURNER ORIFICES			Quantity	8	10	13	15	12	14
Natural Gas, 0-2000 ft, installation in U.S. or Canada			P/N	164866	11833	11833	11833	11835	45870
			Size	2.1mm	#44	#44	#44	#37	#38
Propane Gas, 0-2000 ft, installation in U.S. or Canada			P/N	97359	11830	97359	11830	9789	61653
			Size	1.25mm	#55	1.25mm	#55	#53	1.55mm
Installed in Canada	Natural Gas	2001-4500 ft	P/N	40414	38678	38678	38678	45871	11792
			Size	#48	#45	#45	#45	#39	#41
	Propane Gas	ft	P/N	63003	11830	63003	11830	11834	61652
			Size	1.2mm	#55	1.2mm	#55	#54	1.45mm
Installed in the U.S.	Natural Gas	2001-3000 ft	P/N	84853	38678	38678	38678	45870	45871
			Size	#47	#45	#45	#45	#38	#39
	Propane Gas	ft	P/N	97359	11830	97359	11830	11834	9789
			Size	1.25mm	#55	1.25mm	#55	#54	#53
	Natural Gas	3001-4000 ft	P/N	84853	38678	38678	38678	45871	87391
			Size	#47	#45	#45	#45	#39	#40
	Propane Gas	ft	P/N	63003	11830	63003	11830	11834	9789
			Size	1.2mm	#55	1.2mm	#55	#54	#53
	Natural Gas	4001-5000 ft	P/N	40414	38678	38678	38678	45871	11792
			Size	#48	#45	#45	#45	#39	#41
	Propane Gas	ft	P/N	63003	11830	63003	11830	11834	61652
			Size	1.2mm	#55	1.2mm	#55	#54	1.45mm
	Natural Gas	5001-6000 ft	P/N	40414	16590	16590	16590	87391	11792
			Size	#48	#46	#46	#46	#40	#41
	Propane Gas	ft	P/N	63003	39658	63003	39658	11834	61652
			Size	1.2mm	#56	1.2mm	#56	#54	1.45mm
	Natural Gas	6001-7000 ft	P/N	40414	84583	84583	84583	11792	84437
			Size	#48	#47	#47	#47	#41	#42
	Propane Gas	ft	P/N	39658	39658	39658	39658	11834	61652
			Size	#56	#56	#56	#56	#54	1.45mm
	Natural Gas	7001-8000 ft	P/N	39651	84853	84853	84853	84437	84437
			Size	#49	#47	#47	#47	#42	#42
	Propane Gas	ft	P/N	63922	39658	63922	39658	11834	11834
			Size	1.15mm	#56	1.15mm	#56	#54	#54
	Natural Gas	8001-9000 ft	P/N	39651	40414	40414	40414	84437	11828
			Size	#49	#48	#48	#48	#42	#43
	Propane Gas	ft	P/N	63922	39658	63922	39658	11830	11834
			Size	1.15mm	#56	1.15mm	#56	#55	#54



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