



Installation Guide

Conversion Kits: CK-82, CK-83

⚠ 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 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 the kit.

⚠ WARNING

Cette trousse de conversion ne doit être installée que par le représentant d'un organisme qualifié et conformément aux instructions du fabricant et à tous les codes et exigences pertinents de l'autorité compétente. Les instructions de cette notice doivent être suivies afin de réduire au minimum le risque d'incendie ou d'explosion, de dommage matériel, de blessure ou de mort. L'organisme qualifié est responsable de l'installation adéquate de cette trousse. L'installation n'est pas adéquate ni complète tant que le bon fonctionnement de l'appareil converti n'a pas été vérifié selon les instructions du fabricant fournies avec la trousse.

In 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 and CAN/CSA-B149.2 Installation Code.

LA CONVERSION DOIT ÊTRE EFFECTUÉE CONFORMÉMENT AUX EXIGENCES DE L'AUTORITÉ PROVINCIALE AYANT JURIDICTION ET AUX, CAN/CSA-B149.1, ET CAN/CSA-B149.2.

*A qualified service agency is any individual, firm, corporation or company which either in person or through a representative is engaged in and is responsible for the connection, utilization, repair or servicing of gas utilization equipment or accessories; who is experienced in such work, familiar with all precautions required, and has complied with all of the requirements of the authority having jurisdiction.

*Conversion acceptable for install locations 0-2,000 feet. See unit's installation manual for procedures to adjust above 2,000 feet.

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1. Safety Symbols

Potential dangers from accidents during installation and use are divided into the following four categories.

Closely observe these warnings, they are critical to your safety.

⚠ DANGER Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

⚠ WARNING Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

⚠ CAUTION Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

NOTICE Indicates a potentially hazardous situation which, if not avoided, may result in property damage.

2. Before Conversion

Before attempting to convert a unit, verify that the proper kit has been purchased for the model type*:

Conversion Kit	Model	Conversion Type
CK-82	EZ111DV (GQ-C3260WX-FF US) EZ98DV (GQ-C2860WX-FF US)	Propane to Natural Gas
CK-83	NCC199CDV(GQ-C3260WZ-FF US) NRRCR111DV (GQ-C3260WXQ-FF US) NRRCR92DV (GQ-C2660WXQ-FF US)	Natural Gas to Propane

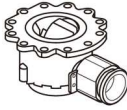








*The model type can be verified from the rating plate located on the right side of case of the unit.

Tools Required:

- Noritz Remote Controller (RC-7651M-A or RC-9018M)
- Manometer (Capable of displaying digits in tenths (i.e. 2.4) and up to 20" W.C.)
- Long Philips screwdriver (#2 Recommended)
- Pliers
- Gas leakage device detector

3. Accessories

The following parts are supplied in the conversion kit. Check for any missing items before starting the conversion.

Parts	Shape	Q'ty	Parts	Shape	Q'ty
Venturi		1	New Inlet Sticker (English)		1
O-Ring –Venturi		1	New Inlet Sticker (French)		1
O-Ring -P18		1	Date, Gas Type, Kit Number, Name of Company Sticker (English)		1
Installation Guide		1	Date, Gas Type, Kit Number, Name of Company Sticker (French)		1
NG-Conversion Connector (*only in conversion kit CK-82)		1			

4. Conversion Procedure

⚠ WARNING

Failure to correctly assemble the components according to these instructions may result in a gas leak or explosion, personal injury or death.

- 1) If the display on the remote controller is on, turn off the unit by pressing the “ON/OFF” button on the remote controller. There should be no display on the remote controller.
- 2) Disconnect the electrical power.
Only for NCC199CDV(GQ-C3260WZ-FF US), turn off the Rocker Switch in the unit.
- 3) Turn off the gas supply.
- 4) Remove the front cover of the unit by removing the 4 screws holding it to the case.
- 5) Detach the Wiring Harness from the Wire Clamp.
Disconnect the Fan Motor connector. (Figure 1)

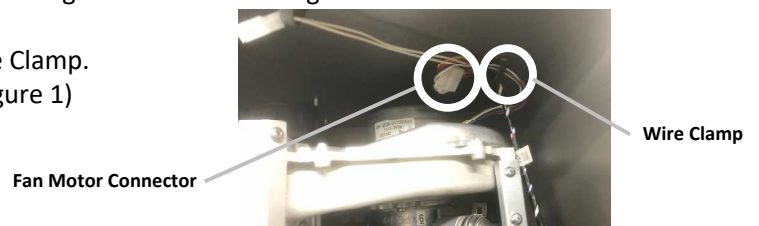


Figure 1

- 6) Remove the 2 screws and the Mounting plate.
Remove the C-Clamp -16B. Then remove the 4 screws with a Long Philips screwdriver. (Figure 2)
DO NOT use a power drill.

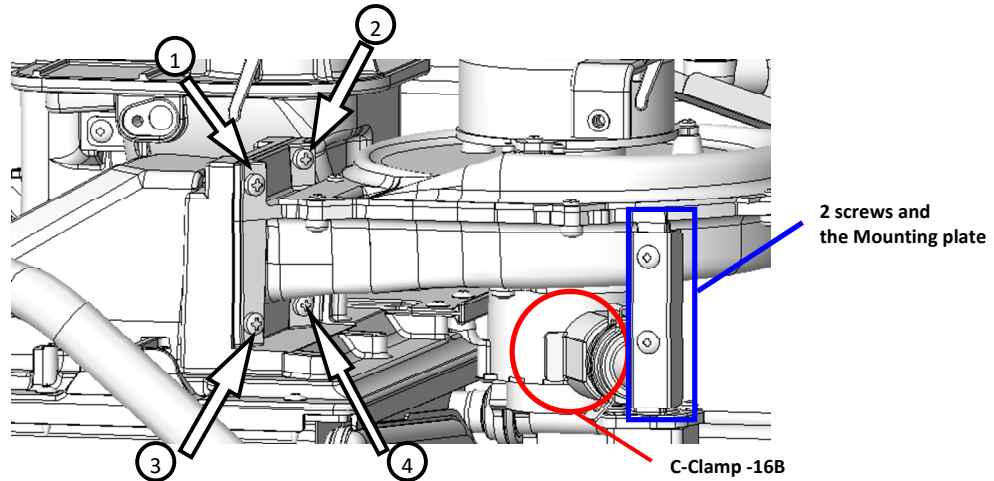


Figure 2

- 7) Remove the Fan Motor and the Venturi assembly.
Do not damage the Venturi resin part (air supply part).
- 8) Replace the O-Ring –P18 to new one. Make sure that the O-Ring is secured properly in place.
(Figure 3)

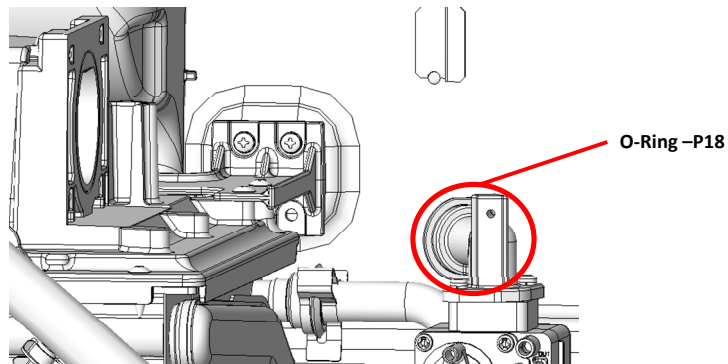


Figure 3

- 9) Remove the 3 screws securing the Venturi with a Philips screwdriver. (Figure 4)
Remove the Venturi.
Discard the original Venturi.

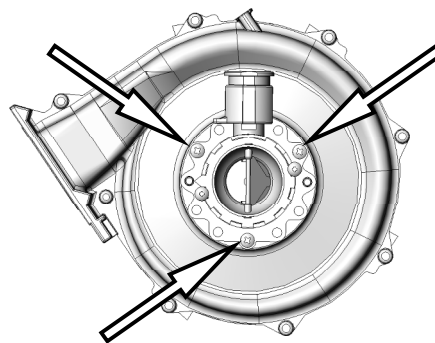
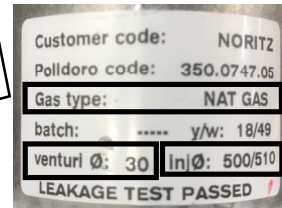


Figure 4

10) Make sure the Gas type, Venturi size, and Inj ϕ on the Venturi label.

Model	Venturi ϕ	Gas type	Label color	Inj ϕ
EZ111DV (GQ-C3260WX-FF US) EZ98DV (GQ-C2860WX-FF US) NCC199CDV(GQ-C3260WZ-FF US) NRRCR111DV (GQ-C3260WXQ-FF US) NRRCR92DV (GQ-C2660WXQ-FF US)	30	NG (NAT GAS)	White	500/510
		LPG	Black	415/410



- 11) Replace the O-ring –Venturi to new one. Make sure that the O-Ring is correctly in place. (Figure 5)
Install the new Venturi so that the orifice connection in the direction of the triangle mark. (Figure 5)
Secure the Venturi to the Fan Motor by using the 3 screws. (Figure 4)

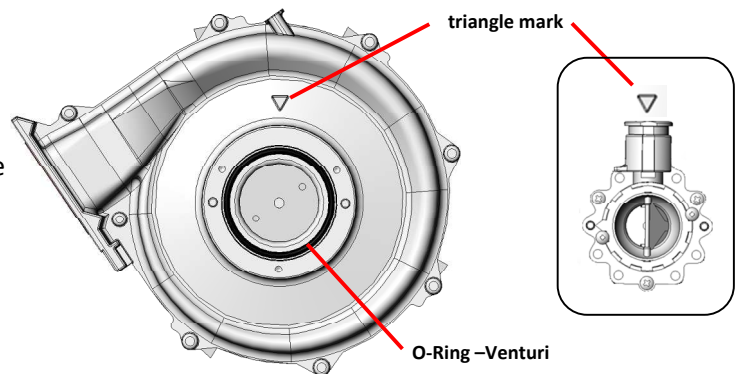


Figure 5

- 12) Put in the Fan Motor and Venturi assembly and connect to Gas Valve Outlet Connector.
- 13) Attach the C-Clamp -16B at the bottom of Venturi. (Figure 2)
Secure the Venturi to the Burner Chamber by tightening the 4 screws removed in Step 6. The screws need only to be tightened by Long Philips screwdriver.
They should not be tightened using a power drill.
First, insert and tighten screws 1-4 (Figure 2), but do not fully tighten these screws. Once all screws are inserted, proceed to completely tighten screws 1-4. (Figure 2)

NOTE: When tightening the screws, be certain not to apply excess force. Excess force can strip out the original holes and screws. Keep the Fan Motor in horizontal. It makes easier to tighten the screws correctly.

- 14) Install the Mounting plate using the 2 screws. (Figure 2)
- 15) Connect the Fan motor connector. And tie the Wiring Harness by using the Wire Clamps. (Figure 1)
- 16) Before closing the front cover, the unit must be adjusted and tested as described in the next section.

5. Parameter Settings

< When converting propane to natural gas >

- 1) Disconnect the electrical power.
- 2) Find a connector with a NG-conversion tag located at the bottom left of the unit.
Connect the NG-conversion connector in the conversion kit.

< When converting natural gas to propane >

- 1) Before electrical power is applied to the unit, install a remote controller to the unit if it is not already installed.
- 2) Reconnect the electrical power to the unit.
- 3) Within the first 10 minutes of connecting electrical power to the unit, but before pressing the Power ON/OFF button (display should be blank), press the “▲” button on the remote controller to blink "99" on the display.
This will put the unit into Maintenance Writer mode. If pressing the up button does not put the unit into Maintenance Writer mode, make sure the remote display is blank, disconnect the electrical power to the unit for 60 seconds, and try again.
- 3) **FOR REMOTE CONTROLLER RC-7651M-A ONLY:** After accessing the Maintenance Writer mode, use the “▲” and “▼” buttons to change the Maintenance Writer item number display. Pressing the “SETTINGS” button for 0.5 seconds will change the item number setting from “ON” to “OFF”. If the Priority lamp turns on when an item number is displayed, this indicates an “ON” setting for that item number, and if the Priority lamp is off, the item number is “OFF”.
- 4) **FOR REMOTE CONTROLLER RC-9018M (Figure 6) ONLY:** After accessing the Maintenance Writer mode, use the “ENTER” button to select from “Item” or “Data”. Press the “up” and “down” buttons to change the Maintenance Writer “Item” number display and on “Data” to “ON” or “OFF”.

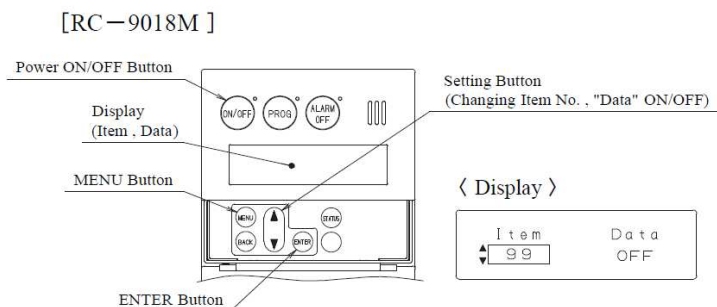


Figure 6

- 5) Change the Item number "37" from OFF to ON.

NOTICE

DO NOT change the other item numbers. This will cause a fault in the unit.

- 6) After setting the item number "37", press and hold the "▲" and "▼" buttons together for 5 seconds to complete the new settings. The remote controller will emit a beeping tone and the display will go blank when the settings are confirmed. If this is not done, the unit will not put the setting changes into effect.

NOTE: The setting changes can be cancelled by pressing the "POWER" button before completing the settings, or if the unit is left in a non-operation state for ten minutes without completing the settings. If the default setting needs to be changed again, disconnect the electrical power to the unit, reconnect it and repeat this procedure.

6. Trial Operation

- 1) Open the gas supply valve.
- 2) Carry out trial operation. Refer to "Trial Operation" in Installation manual.
And check the leakage.

Affix conversion labels:

- 1) Reinstall the front cover using the 4 screws to secure it.
- 2) Locate the 2 conversion stickers in English supplied in the conversion kit. ***For units certified for use in Canada, also locate the 2 conversion stickers in French.**
- 3) Affix the New Inlet sticker as close as possible to the existing rating plate on the unit. (A in Figure 7)
Do not cover the existing rating plate.
***For units certified for use in Canada, also affix French sticker with new pressures next to English sticker.**
- 4) Enter the required information on the remaining sticker indicating the date, gas type, kit number, and name of the company performing the conversion.
Affix this sticker as close as possible to the existing rating plate on the unit. (B in Figure 7)
Do not cover the existing rating plate.
***For units certified for use in Canada, also affix French sticker with agency information next to English sticker.**

(Right side of Case)

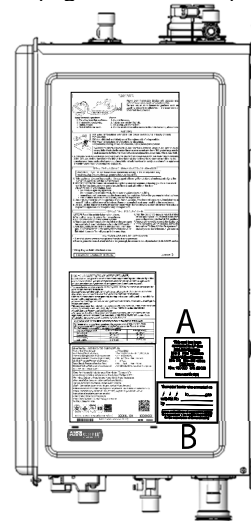


Figure 7

7. Installation Checklist

Parts Replacement:

- Remove existing Venturi, O-Ring-Venturi, and O-ring-P18. Discard these parts.
- Replace with new Venturi, O-Ring-Venturi, and O-ring-P18.
- Make sure that Venturi, O-Ring-Venturi, and O-ring-P18 are securely in place.

Parameter Settings:

- When converting propane to natural gas, connect the NG-conversion connector.
- When converting natural gas to propane, Access Maintenance Writer mode and set the item number "37" to ON.
- Confirm gas type settings.

Trial Operation:

- Before operating the unit, verify that gas supply pressure is within operating range of unit.
- If gas supply pressure is not within specification, adjust the pressure at the regulator or install a secondary regulator on the supply line connected to the unit.
- Check for gas leaks around gas inlet fitting and Venturi, Fan Motor using a gas leak detection device.

Affix Conversion Labels:

- Affix the 2 conversion sticker as close as possible to the existing rating plate on the unit.
- Enter the required information on the sticker indicating the date, gas type, kit number, and name of the company performing the conversion.
- Include French Stickers for the units certified for use in Canada.