

6. Configuring the CRIND™ (Card-Reader-IN-Dispenser)

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ATTENTION

The following procedures require a CRIND™ diagnostic card. Diagnostic cards are sold separately from the CNG dispenser packages. Please contact Technical Support or Sales for more information.

6A. Setting CRIND™ mode

1. Insert and quickly remove the CRIND™ diagnostic card into the card reader.

NOTE: The CRIND™ display will show the Diagnostic Startup Menu.

2. Press “1” on the CRIND™ keypad to enter the Main Menu.
3. Press “1” to select CRIND™ Config.
4. Press “2” to select CRIND™ Mode.
5. Press “2” to select Generic.

NOTE: “CRIND™ Mode” (near the top of the display) will reflect your selection.

6. Press **Enter** to save your current settings and exit.
7. Proceed to 6B.

6B. Setting pump/hose IDs in CRIND™

NOTE: Refer to Steps 1 - 3 of 6A to access the Diagnostic Startup Menu if you are not continuing from 6A.

1. Press “1” to select CRIND™ IDs.
2. Press “1” or “2” to choose a dispenser side.
3. Enter the hose number for the corresponding side.
4. Press **Enter**.
5. Repeat steps 5 and 6 to set the hose ID for the other side.
6. Follow the prompts to exit.

7. Leak test and repair procedures



CAUTION

NEVER TIGHTEN, LOOSEN, OR ATTEMPT TO REMOVE A PRESSURIZED FITTING

1. Apply a leak detector to all fitting connections—we recommend using Snoop® Liquid Leak Detector.
2. Thoroughly inspect all fitting connections for bubbles, which indicate a leak. Be sure to note or mark the locations where leaks are found.
3. If leaks are found, vent gas from the dispenser.
4. Ensure the dispenser is completely vented; please refer to *Owner's Manual* for proper venting procedures.



CAUTION

If a leak appears downstream of an inlet valve, you must flip the authorization handle to the ON position, forcing the valve(s) to open and release the trapped gas. Continue flipping the authorization handle OFF and ON until the pressure gauge reads 0 psi and all venting sounds have ceased.

5. Loosen and re-tighten the fittings where leaks are found; most fittings can be repaired simply by tightening them.
6. Re-pressurize the dispenser and reapply the leak detector at 100 psi. If no leaks are detected, continue pressurizing the dispenser, reapplying the leak detector at every 500 psi interval.

NOTE: If leaks persist, contact Technical Support.

QUICK-START GUIDE

Retail CNG Dispenser

This guide is designed to help you start-up and configure your dispenser as quickly as possible, assuming all electrical and mechanical installations have been completed safely and accordingly. Please refer to the accompanying owner's manual for more details on the procedures and dispenser-components mentioned in this guide.



CAUTION

Electrical installations must only be carried out by licensed electrical journeymen.



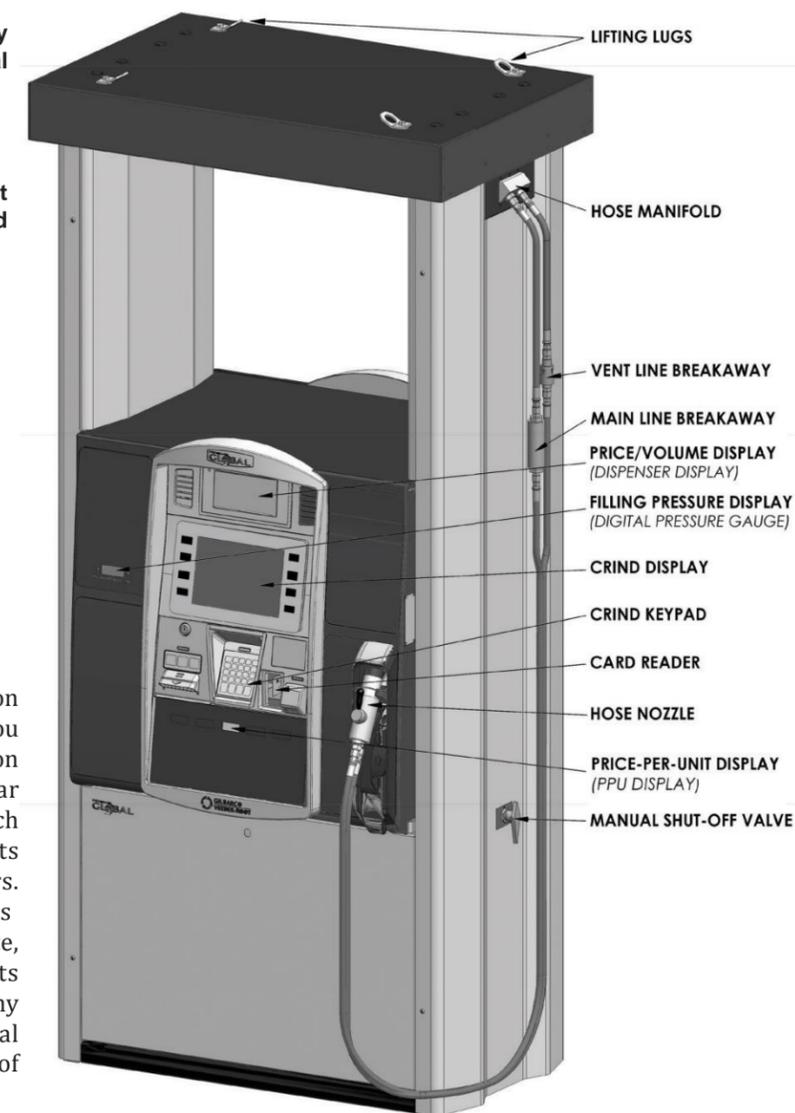
CAUTION

High-pressure gas connections must only be carried out by qualified and experienced personnel.

This *Quick-Start Guide* includes procedures for:

- attaching the fueling hose
- powering-up the dispenser
- pressurizing the dispenser
- setting pump and hose IDs
- configuring the CRIND™
- performing a leak-test

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Contact information

Phone: 1-204-663-3601 Fax: 1-204-663-7112

Extensions:

Engineering	276
Sales	235
Logistics	215
Technical Support	212



25 Paquin Road • Winnipeg, MB, Canada • R2J 3V9

www.krausglobal.com

1. Attaching the fueling hose

1. Remove the hose from its packaging.
2. Inspect the hose for defects/damages. Do not use defective/damaged hoses.
3. Attach the main line to the hose manifold, located on the side and along the top of the dispenser. The manifold may be on both sides, depending on the dispenser's hose configuration.
4. Hand-tighten the main line fitting to the manifold so that it may still be loose enough to turn.
5. Straighten the hose and place the nozzle into the holster. The loose fitting should allow the hose to find its natural resting position.
6. Tighten the main line fitting at the manifold with a backup wrench. Hose connections do not require sealants or Teflon tape.
7. Attach the vent line to its corresponding manifold connection and tighten with a backup wrench.



To help avoid abrasive damage to the hoses, do not allow any part of the hose to be in contact with the ground or dispenser while it is holstered. If this cannot be avoided, the hose may be too long; please contact our Technical Support Department immediately.

2. Powering-up the dispenser



The dispenser is shipped in "Standalone mode." It is recommended that the initial power-up process is done under this mode to facilitate procedures requiring authorization.

1. Remove the bottom panels of the dispenser to access the lower cabinet.
2. Close all manual filter inlet valves, vent valves, and manual shut-off valves.
3. Inspect the Magnehelic gauge; ensure the air pressure is above 0.15 inches-of-water.



For safety purposes, the upper cabinet must maintain a positive air pressure. A purge switch and timer are used to trigger automatic system-shutdowns and startups. If the Magnehelic gauge displays a pressure lower than 0.15, dispenser electronics may not function. You may need to increase the purge fan pressure or inspect the cabinet and air purge system for leaks.

4. Turn on the power to the dispenser from the breaker box.

NOTE: The dispenser-electronics, CRIND™, and MICON™ will simultaneously initiate the following power-up sequences:

- The price/volume-display will show the current software version and dispenser model during this sequence. The power-up sequence is complete when the dollar and volume displays read 0.00 and 0.000 respectively.
- The CRIND™-display will show the *Gilbarco Veeder-Root* logo. The power-up sequence is complete when the display reads:
Encore® 500/Eclipse CRIND™—Please Program CRIND™ Mode.
- The filling-pressure display, located to the left of the CRIND™-display, will count down from 25 seconds. The power-up sequence is complete when the countdown reaches zero and the display reads 0000.

3. Pressurizing the dispenser



To ensure peak performance, all Kraus CNG dispensers should be leak-tested before initial operation. The first leak test should be done while initially pressurizing the dispenser.



If your dispenser operates over a cascade storage system, complete the following procedure with the low-bank first, the mid-bank second, and the high-bank last.

1. Open manual shut-off valve(s), located along the side(s) of the dispenser.
2. Flip the authorization handle to the **ON** position. This enables you to see the pressure reading through the filling-pressure display.
3. Slowly open the inlet valve and allow 100 psi of gas to fill the dispenser.
4. Close the inlet valve and flip the authorization handle to the **OFF** position once the pressure gauge indicates 100 psi.
5. Apply a leak detector to all fitting connections in the lower cabinet. We recommend using Snoop® Liquid Detector.

NOTE: if any leaks are detected, please refer to Section 7—Leak Test and Repair Procedures.

6. If no leaks are found, reauthorize the dispenser by flipping the authorization handle up to the **ON** position.
7. Slowly reopen the valve to allow 500 psi of gas to fill the dispenser.
8. Close the valve once the pressure gauge indicates 500 psi.
9. Reapply the leak detector; see NOTE in Step 5 if leaks are detected.
10. Repeat this process in 500 psi increments until the regular operating pressure is reached. Repeat this process for each inlet valve.

4. Connecting the Manager-keypad

1. Power-off the dispenser from the breaker box.
2. Open the upper cabinet. You may need the dispenser keys to unlock the cabinet door.
3. Retrieve the Manager-keypad from inside the upper cabinet. The Keypad is a flat magnetic keypad connected to a ribbon cable; it may be found attached to the inside wall of the upper cabinet.

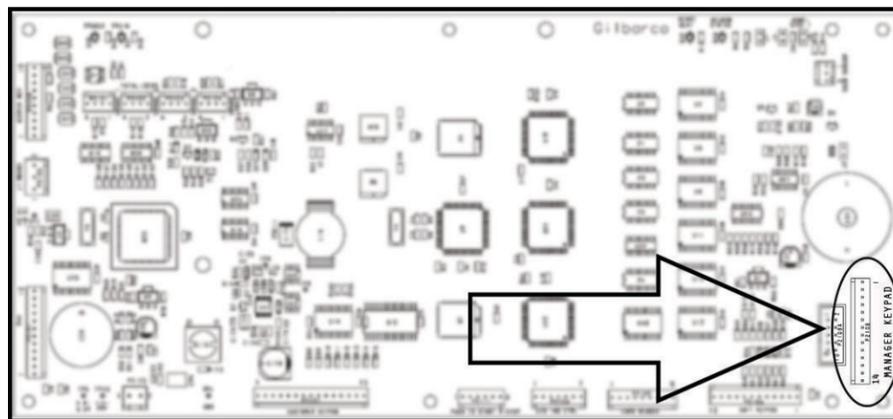


Figure 1: Manager-keypad connector on pump door node

4. Connect the keypad to the pin connector labeled "MANAGER KEYPAD" on the pump door node, located directly behind the dispenser display; see Figure 1 above.
5. Hang the keypad over the cabinet door, as shown in Figure 2.
6. Ensure the cabinet door is closed and fully sealed. Dispenser electronics will not function if the upper cabinet is not sufficiently pressurized.



Figure 2: Manager-keypad at power-up

5. Enabling 2-wire mode and setting pump/hose IDs

1. Press **F1** on the Manager-keypad.
2. Enter the level 2 security code: "1503" and press **Enter**.

NOTE: The dispenser display will flash 0000 after the code is accepted.

Disabling Standalone mode and enabling 2-wire mode

- 3a. Enter command code "24" and press **Enter**.
- 3b. Enter "1" to choose 2-wire mode and press **Enter**.
"1" = 2-wire mode
"2" = Standalone mode
- 3c. Press **F1** to choose another command code.

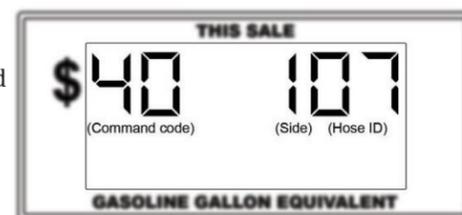


After enabling 2-wire mode, a system-lockout prevents further modification of this option. Reverting to Standalone mode requires shutting-off the power from the breaker box and manually disconnecting the 2-wire connection in the upper cabinet. With the wires disconnected, the dispenser must be rebooted and allowed to sit idle for 6 full minutes. After 6 minutes the lockout is overridden and you may re-enter Programming mode and reselect the Standalone option (option 2).

Setting pump/hose IDs

- 4a. Enter command code: "40" and press **Enter**.

NOTE: The dispenser-display will show three numbers to the right of command code "40." The first flashing number represents the dispenser side (1 or 2); the two flashing numbers that follow represent the hose number (01, 02, 03, etc.).



- 4b. Enter "1" to set a hose number for side 1 and press **Enter**.
- 4c. Enter the 2-digit hose number designated for side 1 and press **Enter**.



There are 4 jumper-pins along the top-right corner of each pump door node. If the pin labeled "A0" is covered with a jumper, it is dispenser side 2.

- 4d. Enter "2" to set a hose number for side 2 and press **Enter**.
- 4e. Enter the 2-digit hose number designated for side 2 and press **Enter**.
- 4f. Press **F2** to save the current settings and exit Programming mode.

NOTE: The dispenser-display will reboot as your settings are applied.