



Foodservice Gas Connector Installation Guide

Please read the following instructions carefully. Failure to fully understand and follow these instructions, cautions and warnings could cause severe injury or death!



CAUTIONS AND WARNINGS!

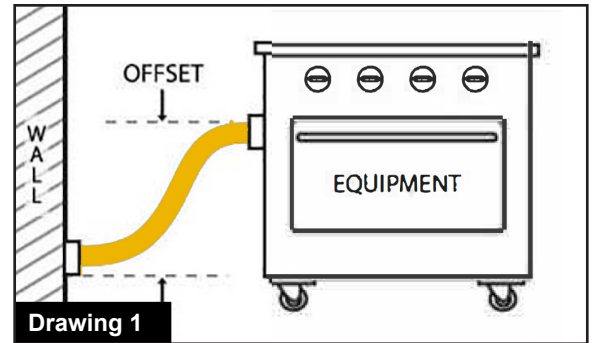
- The Installation **MUST** be compliant with the National Fuel Gas Code (ANSI 2223.1) and local gas installation codes.
- The installation and testing **MUST** be performed by a qualified professional. Make sure that the gas supply and gas valves of the appliances are shut off before the installation of gas connector.
- Gas supply outlet shall be in the same room as appliance and the gas connector must not be concealed within or turn through any wall, floor or partition. Gas connector shall not be in contact with any surfaces with temperature over 110°C (230°F), sharp edges or electric wiring.
- The final assembly must be tested for leaks after the installation. Open flame or any sources of ignition must not be used for the testing. Any remained test solution may cause corrosion. Tested gas connectors **MUST BE WATER RINSED AFTER LEAK TEST**. For the proper leak test, reference National Fuel Gas Code Z223.1, NFPA 54 or CSA B 149.1, Natural Gas and Propane Gas Installation Code. If odor of gas is detected, immediately turn off the gas supply to the appliance and contact a qualified professional for repair.
- **STRONG CLEANING SOLUTIONS OR CHEMICAL SUBSTANCES MUST NOT COME IN CONTACT WITH THE GAS CONNECTORS**. These may include acids, solvents, flux with zinc chloride or other chlorinated chemicals. In case of exposure to strong chemical, gas connectors shall be rinsed down with water and dried thoroughly.
- An accessible manual shut-off valve must be installed at the outlet of the gas supply line and upstream of the gas connector.
- Any contact with foreign objects, wiring or substances shall be avoided.
- Movement of gas connector installed on fixed appliances shall be avoided after the installation.
- Movement of gas connectors installed on moveable appliances (e.g. those factory equipped with casters) shall be limited to only pulling and pushing the appliance for cleaning or maintenance.
- Gas connectors are only for use with gas fuel supply piping with pressure not in excess of ½ psi (3.5 kpa). Flexible gas connectors are suitable for use with 1st, 2nd and 3rd family gases on piping systems operated at a pressure not exceeding 50 mbar.
- **DO NOT REUSE FOR ANOTHER APPLIANCE OR AT ANOTHER LOCATION**.
- In addition to the main gas supply shut-off valve, an approved accessible manual shut-off valve must be installed upstream of the gas connector (within 6 feet of the equipment it serves). Each piece of equipment must have its own shut-off valve. **DO NOT USE** the quick-disconnect coupling as the primary gas shut-off.
- The quick disconnect **MUST BE INSTALLED** so that the gas enters the coupling half and exits the nipple half. The installation shall be following the flow direction arrows that are permanently marked on the coupling.
- **NEVER APPLY** screwdrivers, probes, etc. into the quick disconnect couplings. The valve seat can be damaged or forced off center.
- The gas connector shall not be kinked, twisted or torqued during the installation.
- Make sure that all fittings are tightened properly. When installing gas connectors, two 14-inch adjustable wrenches (minimum size) are recommended as proper tools.
- Adequate means must be provided to limit the movement of caster appliances. A restraining device is **REQUIRED** for all types of moveable gas appliances.
- When installing an equipment line-up with dual feed front manifold gas inlets, **DO NOT** use a quick disconnect coupling.
- Appliances must be disconnected prior to maximum movement. **DO NOT OVEREXTEND** the gas connector assembly.

INSTALLATION INSTRUCTIONS

1. The manual gas shut off ball valve (B), located in the gas manifold line (A), must be in the fully closed (off) position. If there is no gas shut-off valve in the manifold line, the main gas supply line valve (not shown) must be turned off.

WARNING! DO NOT CONTINUE UNLESS THE GAS SUPPLY IS TURNED OFF.

2. Make sure that the gas connector is not kinked, twisted or torqued when installed. Please refer to Installation Rights and Wrongs. For the case of a sharp bend in the hose, use of an Encore swivel connection is recommended.
3. It is recommended the main gas supply be located 30 - 42" off the ground. There should be pipe tees pointing downward direction.
4. To facilitate moving equipment as close to the wall as possible, the two ends of the Encore gas connector should be offset to the side from each other. (+/-3" offset recommended, see drawing 1).
5. Each piece of equipment **MUST** have its own approved manual shut-off valve. If there is not an accessible manual gas shut-off valve for each piece of equipment, make sure that the gas has been shut off at the main gas shut-off valve for each piece of equipment before continuing the installation.
6. The Encore Quick Disconnect coupling **MUST BE** oriented so that the gas enters the female (valved) coupling half and exits the male nipple half. FOLLOW the flow direction arrows permanently marked on the coupling.



ENCORE QUICK DISCONNECT INSTALLATION INSTRUCTIONS

This installation method, commonly used in North America, shows the quick disconnect coupling attached at the appliance side. The nipple **MUST** always be on the appliance side, attached to the appliance stub-out or external regulator. This enables the operator to move the equipment away from the wall in an equipment line-up and safely disconnect the gas connector from the back side of the appliance.

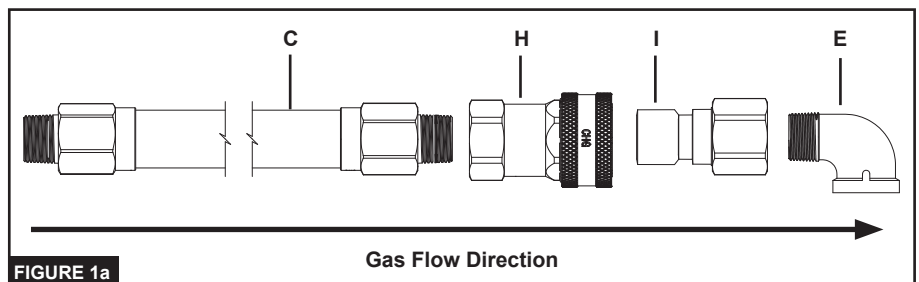
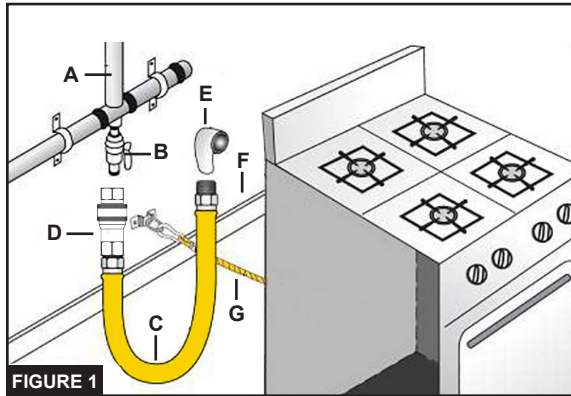


FIGURE 1a

- | | | |
|-------------------------|----------------------------|--|
| A. Gas Supply Line | D. Encore Quick Disconnect | G. Restraining Cable |
| B. Gas Ball Valve | E. 90° Elbow | H. Encore Quick Disconnect Coupling (female) |
| C. Encore Gas Connector | F. Appliance Male Stub-Out | I. Encore Quick Disconnect Nipple (male) |

7. There are two options for the installation of the quick disconnect couplings:
OPTION 1: Quick-disconnect at the appliance side.
OPTION 2: Quick-disconnect at the gas supply line on the wall.
8. **OPTION 1:** Quick-Disconnect attached at the appliance side (Refer to Figure 1).

Gas Supply Side:

- a. Apply thread sealant (pipe dope) or thread tape to the threads at one end of the gas connector.
- b. Thread this end of the gas connector into the gas shut-off valve and tighten with wrenches.

Appliance Side:

- c. Apply thread sealant (pipe dope) or thread tape to the appliance's male stub-out (F), and thread street elbow (E) onto male stub-out and tighten with wrenches. The location of both the equipment stub-out and the tees for the gas supply line manifold can vary greatly.
 - d. Apply thread sealant (pipe dope) or thread tape to male street elbow (E) threads.
 - e. Separate the quick-disconnect coupling male end or nipple (I) from the female end or coupling (H). Thread the male nipple (I) onto the street elbow (E) and tighten.
- NOTE:** The quick-disconnect **MUST BE ORIENTED** so that the gas enters the coupling half and exits the nipple half of the quick-disconnect. Installation personnel **MUST** follow the flow direction arrows permanently marked on the coupling.
- f. Apply thread sealant (pipe dope) or thread tape to the male threads of the gas connector. Thread quick-disconnect coupling onto the gas connector threads. Tighten.

- g. Connect quick disconnect female coupling (H) to the male nipple (I). (Figure 1 a).
- h. Check tightness of all connections. Leak test in accordance with accepted testing procedures.
- i. After installation of the connector, carefully push the appliance back to its normal operating position.
- j. Ensure that the connector is not kinked, over bent, or caught under the equipment casters.

9. **OPTION 2:** Quick Disconnect attached at the gas supply side (Refer to Figure 2)

WARNING! If you decide to select an Option 2 installation, the female part of the quick-disconnect coupling must be upstream and attached to the gas supply.

Option 2 installation may require additional female - female coupling and/or male - male coupling which are not included in the kit. Check additional necessary parts before installation

Gas Supply Side:

- a. Apply thread sealant (pipe dope) or thread tape to the threads at one end of the gas connector.
- b. Thread the gas connector end into the quick-disconnect male nipple (I). Tighten with wrenches.
- c. Separate the quick-disconnect female coupling (H) from the male nipple (I). (Figure 2a).
- d. Apply thread sealant (pipe dope) or thread tape to the valve nipple. If the valve has female thread, properly connect male x male threaded coupling (not included).
- e. Thread the quick-disconnect female coupling onto the threads of the gas shut-off valve (or male threaded coupling connected to valve). Tighten with wrench.

Appliance Side:

- f. Apply thread sealant (pipe dope) or thread tape to the appliance's sub-out (F) and thread the elbow onto the stub-out.
- g. Apply thread sealant (pipe dope) or thread tape to the male threads of the street elbow. If necessary, properly connect female x female threaded coupling onto street elbow (not included).
- h. Apply thread sealant (pipe dope) or thread tape to the gas connector threads. Thread hose into the street elbow (or female threaded coupling connected to street elbow). Tighten with wrench.
- i. Connect quick-disconnect male nipple (I) to the female coupling (H).
- j. Check tightness of all connections. Leak test in accordance with accepted testing procedures.
- k. After installation of the connector, carefully push the appliance back to its normal operating position.
- l. Ensure that the connector is not kinked, over bent, or caught under the equipment casters.

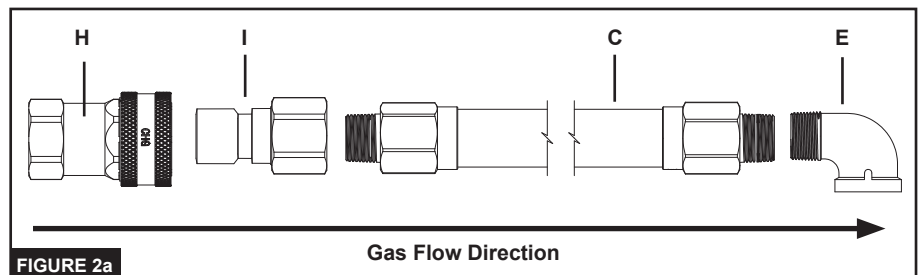
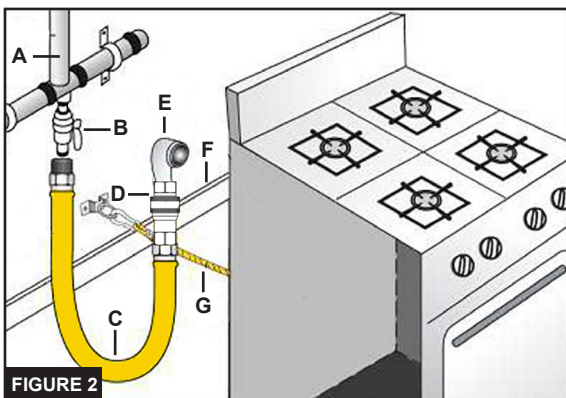


FIGURE 2a

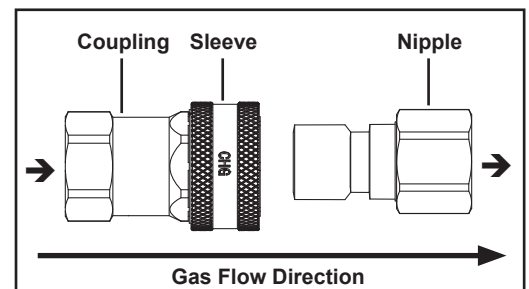
- | | | |
|-------------------------|----------------------------|--|
| A. Gas Supply Line | D. Encore Quick Disconnect | G. Restraining Cable |
| B. Gas Ball Valve | E. 90° Elbow | H. Encore Quick Disconnect Coupling (female) |
| C. Encore Gas Connector | F. Appliance Male Stub-Out | I. Encore Quick Disconnect Nipple (male) |

ENCORE QUICK DISCONNECT DEVICE OPERATING INSTRUCTIONS

TO CONNECT: Push nipple straight into coupling until sleeve snaps forward against retaining ring. Open shut-off valve to turn on gas.

TO DISCONNECT: Close shut-off valve to turn off gas. Retract sleeve and pull out nipple.

IMPORTANT: QUICK DISCONNECT COUPLING IS NOT TO BE USED AS THE PRIMARY SHUT OFF.



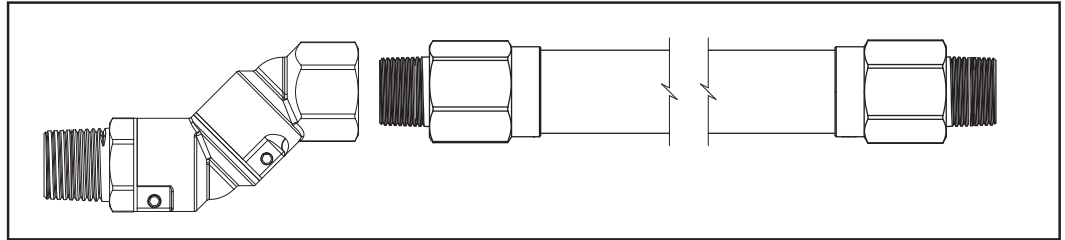
INSTALLATION INSTRUCTIONS FOR SWIVEL CONNECTION:

NOTE: The Encore Swivel is attached to the gas supply end of the connector

Encore SWIVEL FITTINGS ARE DESIGN CERTIFIED FOR USE WITH Encore GAS CONNECTORS ONLY

1. Do not conceal swivel within or run through walls, floors or partitions.
2. For use on piping systems having fuel gas pressured not exceeding 1/2 psi.
3. Install downstream of the gas supply piping manual shut-off valve **ONLY**.
4. Use thread sealant (pipe dope) only when installing an Encore Swivel fitting.

- **DO NOT USE TEFLON TAPE ON THE SWIVEL**
- **DO NOT OVER-TIGHTEN**

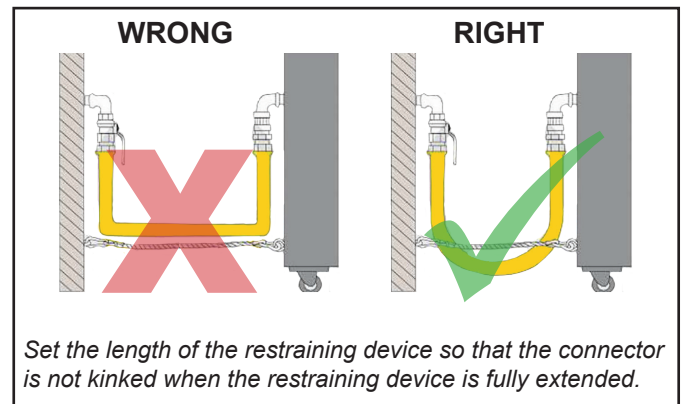


RESTRAINING CABLE INSTALLATION INSTRUCTIONS

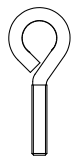
WARNING! The restraining device must always be connected when the appliance is in service! The restraining device should be disconnected for movement, such as for servicing or cleaning, only after gas has been shut off and the connector has been disconnected! Reconnect restraining cable before reconnecting the gas connector and moving back to its original position.

RESTRAINING CABLE

1. Restraining Device should be installed parallel (in line with the gas appliance connector.)
2. Attach the staple bracket (C) to a stud in the wall, using the four 1" #10 screws (D) and the plastic anchors (E) if needed.
3. Locate a structural area (frame) on the rear side of the equipment that is in line with the wall attachment.
Drill a 1/4" diameter hole. Use caution when drilling hole, so that internal components are not damaged.
4. Thread the hex nut (G) and a washer (I) onto the eyebolt (F). Slide one washer onto the nut. Slide the eyebolt through the drilled hole and place a washer (I) and the nylon lock nut (H) onto the eyebolt on the inside frame of the equipment and tighten securely.
5. Attach one of the snap hooks (B) to the staple bracket on the wall (Step 2 above) and the other to the eyebolt (Steps 3 and 4 above).



RESTRAINING CABLE PARTS



(2) Eye Bolts



(2) Nuts



(4) Screws



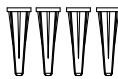
(2) Brackets



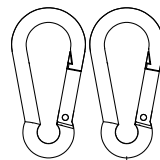
(4) Washers



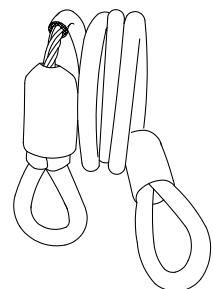
(2) Packing



(4) Plastic Anchors



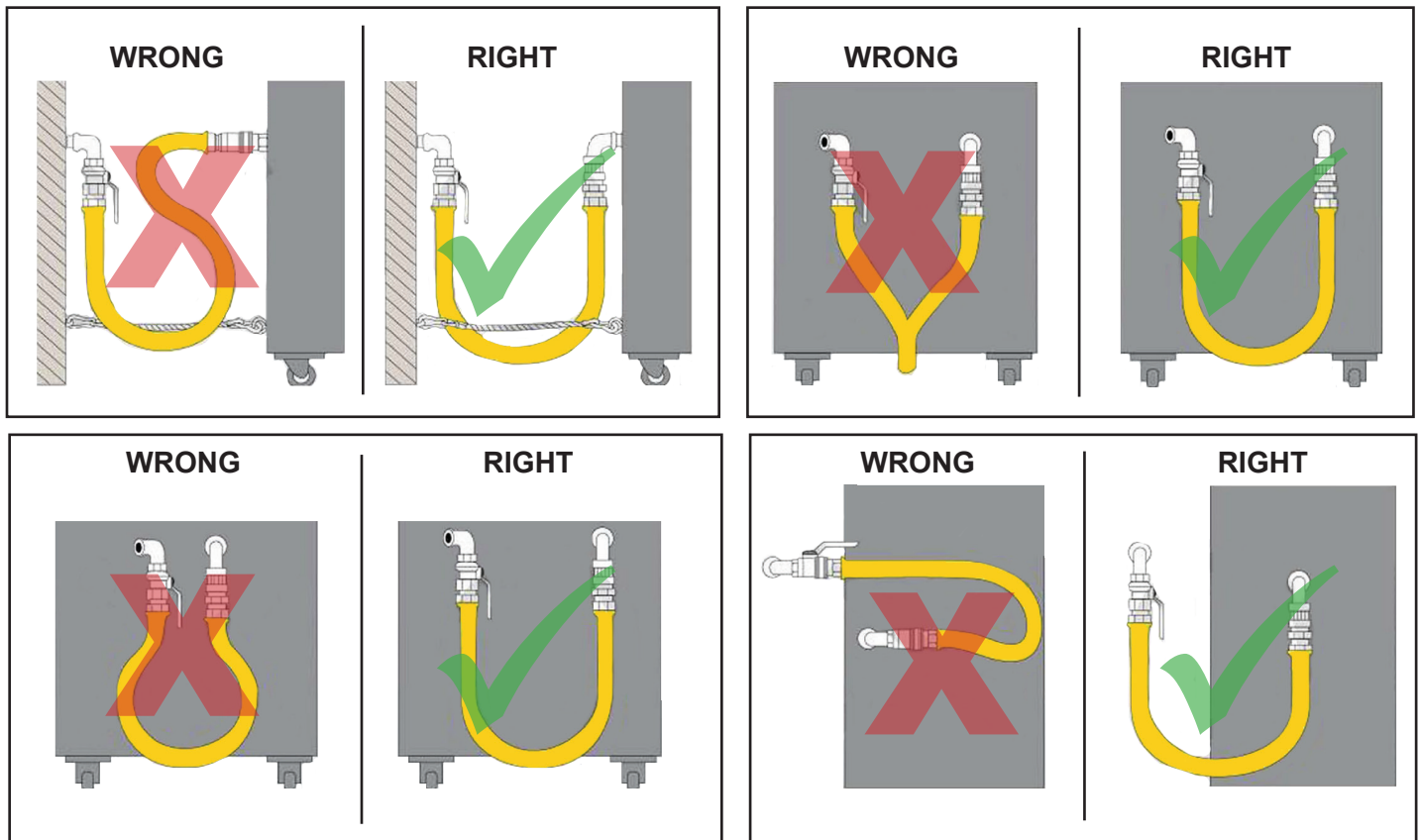
(2) Snap Hooks



(1) Cable

NOTE: For adjustable restraining devices, the cable is manufactured to be shorter than the length of the gas connector.

INSTALLATION RIGHTS AND WRONGS



INSTRUCTIONS: CLEANING BEHIND EQUIPMENT

A. Disconnecting the Gas Line

- 1) Turn off the equipment.
- 2) Carefully pull the equipment away from the wall, stopping when the restraining cable is taut.
- 3) Shut-off the gas supply by turning the lever on the gas ball valve (located off the main manifold line) to the "OFF" position. Unplug any electrical cords.
- 4) Disconnect the gas line by pulling back the sleeve of the quick-disconnect coupling. Be careful not to drop the coupling on the floor, which may damage the unit.
- 5) Detach the snap-hook of the restraining cable.
- 6) Carefully pull the equipment away from the wall.
- 7) Clean behind the equipment, making sure no foreign substance, grease, cleaning solution or dirt enter the quick-disconnect coupling or gas line.

B. Reconnecting the Gas Line

- 1) Reattach the quick-disconnect coupling by inserting the plug (nipple) end into the coupling.
- 2) Reattach the restraining cable.
- 3) Reattach any electrical cords.
- 4) Turn the lever on the gas ball valve to the "on" position.
- 5) Carefully push the equipment back towards the wall, be sure that the gas connector is not twisted or kinked in a severe angle. Check that the gas connector is not damaged or crushed by the equipment rolling over it.
- 6) If required, relight the pilot light. Turn the equipment on.

CANADIAN INSTALLATION INSTRUCTIONS:

WARNING! The quick-disconnect must be installed so that the gas enters the coupling half and exits the nipple half. You must follow the flow direction arrows that are permanently marked on the coupler.

1. The gas outlet must be in the same room as the gas-fired equipment and the connector must not be concealed within or run through any wall, floor or partition.
2. All part of the union supplied with the connector must be used, and no attempt shall be made to assemble union nuts directly to pipe threads.
3. The connector must not be kinked, twisted or torqued.
4. Connectors are for use only on piping systems having fuel gas pressures not in excess of 1/2 psi (3.5 kPa).
5. For moveable appliance installation (e.g., appliances factory-equipped with casters), flexing and bending should be limited to the needs of pulling and pushing the appliance in and out for cleaning, maintenance or installation. For fixed appliance installation, connector movement after installation should be avoided.
6. Contact with foreign objects or substances must be avoided.
7. An accessible manual shutoff valve must be installed at the outlet of the gas supply piping system upstream of the connector.
8. The final assembly must be tested for leaks.

Caution! Matches, candles, open flame or other sources of ignition shall not be used for this purpose. Leak test solutions may cause corrosion-water rinse after test. To check gas supply piping system for leakage, see the National Fuel Gas Code, ANSI Z223.1 or CAN/CGA-8149.1, Natural Gas Installation Code, and CAN/CGA-8149.2, Propane Installation Code.

9. The connector complies with the Standard for Connectors for Moveable Gas Appliances, ANSI 221.69-CGA 6.16.
10. A restraining cable **MUST BE** connected at all times when appliance is in use.

TERMS AND CONDITIONS

Terms of Payment - NET 30 days subject to satisfactory credit arrangements. (No shipments will be made to accounts which are in arrears.)

Minimum Charge - There is a minimum billing charge of \$50.00 per invoice.

Deliveries - Component Hardware® is not responsible for delays in deliveries due to circumstances beyond our control such as fires, strikes, transportation delays, material shortages, accidents or other contingencies of similar nature.

Returned Merchandise - No returned goods will be accepted without permission. A Returned Goods Authorization number is required prior to return, which can be obtained by calling Component Hardware at 800-526-3694. All returns must have the RGA Number posted on the exterior of all associated cartons.

No item will be accepted for return six months after invoice date. Freight charges for returned goods must be prepaid. All returned goods are subject to a 25% restocking charge and must be in complete and resalable condition. Items made to customers' specifications or specially ordered goods are not returnable.

Shortages - Any claims for shortage must be made immediately upon receipt of merchandise. Shortage claims will be invalid unless Component Hardware is notified in writing within 30 days of invoice date.

Special Products - If orders for items that are special (non-catalog) are cancelled, Component Hardware shall be reimbursed for any expense incurred in the purchase of raw or finished material and further processing thereof.

Product Changes - Although all items will be furnished as described unless otherwise indicated. However, we reserve the right to alter, modify, or redesign products without creating any liability for the obsolescence of customer inventories.

Taxes - Any federal, state or city taxes applicable will be added to prices shown. Clerical and printing errors and omissions are subject to correction. No representative, dealer, distributor or any other person is authorized or permitted to obligate this corporation.

LIMITED WARRANTY

PLEASE READ THIS LIMITED WARRANTY BEFORE INSTALLING OR USING ANY ENCORE® PRODUCT. IF THESE TERMS ARE NOT ACCEPTABLE TO YOU, IMMEDIATELY RETURN THE PRODUCT TO COMPONENT HARDWARE GROUP, INC. BEFORE INSTALLATION OR USE.

Component Hardware offers a five-year warranty on all Encore Gas Connectors. We assure that each product leaves our factory in perfect working order. With proper care, Encore products will provide the user with years of satisfying service.

Component Hardware warrants to the original purchaser (other than for purposes of resale) of any Encore brand product that such product is free from defects in workmanship and materials for the warranty period from the original date of purchase. During this limited warranty period, if this product is found to be defective, Component Hardware will, at its option, repair and/or replace it. To obtain warranty service, products must be returned to Component Hardware Group, Inc., 90 Matawan Road, Suite 202 PO Box 2020, Matawan, NJ 07747, using the aforementioned procedure for Returned Merchandise. Shipping, freight, insurance and other transportation charges of the returned product to Component Hardware and the return of the repaired or replaced product to the purchaser are the responsibility of the purchaser. Replacement and/or repair under this warranty shall be made within a reasonable time after receipt by Component Hardware of the returned product.

Any express warranty not provided herein and any remedy for breach of contract which but for this provision might arise by implication or operation of law, is hereby excluded and disclaimed. Any implied warranties of merchantability or fitness for a particular purpose are limited in duration to the above one-year period.

Under no circumstance shall Component Hardware be liable to purchaser or any other person for any loss of use of the product or any special or consequential costs, expenses or damages whether arising out of breach or warranty, breach of contract or otherwise incurred by the purchaser or any other user.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific rights and you may also have other rights which vary from state to state.



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