

# SECTION 2. INSTALLATION

# **2-1. INTRODUCTION**

This section provides the installation and unpacking instructions for the Henny Perny PFG-690.



Installation of this unit should be performed only by a qualified service technician.



Do not puncture the fryer with any objects such as drills or screws as electrical shock or component damage could result.



Any shipping damage should be noted in the presence of the delivery agent and signed prior to his or her departure.

- 1. Cut and remove the plastic bands from the main box.
- 2. Remove the box lid and lift the main box off the fryer.
- 3. Remove four corner packing supports.
- 4. Cut the stretch film from around the carrier/rack box and remove it from the top of the fryer lid.
- 5. Cut and remove the metal bands holding the fryer to the pallet.



All counterweights must be loaded before unlatching the lid, or personal injury could result.

6. Remove the fryer from the pallet.



Take care when moving the fryer to prevent personal injury. The fryer weighs approximately 935 lbs. (424 kg).

## 2-2. UNPACKING INSTRUCTIONS

## 2-2. UNPACKING INSTRUCTIONS (Continued)

7. Remove the counterweights, which are strapped to the pallet under the fryer, from the pallet.



Do not drop. The counterweights weigh approximately 18 lbs. (8.1 kg) each. Handle with care, or personal injury could result.

- 8. Remove rear service cover.
- 9. Load the 7 weights into the counterweight assembly.
- 10. Replace rear service cover.



To avoid personal injury and assure safe operation of unit, rear service cover must be in place.

- 11. Cut warning tags from the lid assembly. The lid may now be unlatched.
- 12. Remove the accessories from inside the filter drain pan.



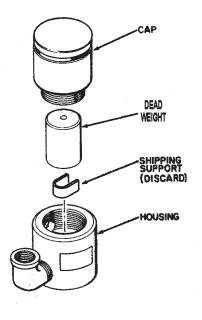
The fittings for installing the gas line are in a separate box, along with the accessories, in the filter drain pan.

13. Prepare the deadweight valve for operation

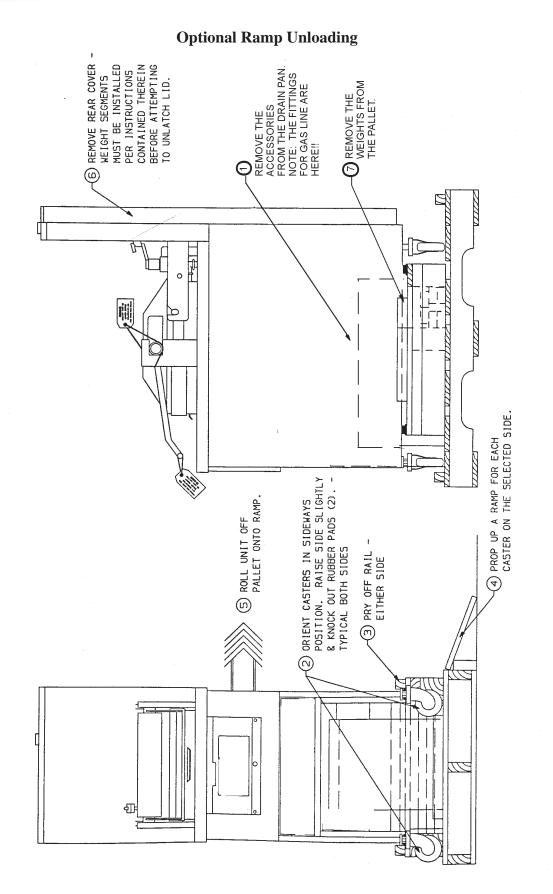


The metal shipping support is placed within the deadweight assembly housing to protect the deadweight orifice and deadweight during shipment. This support must be removed prior to installation and start-up.

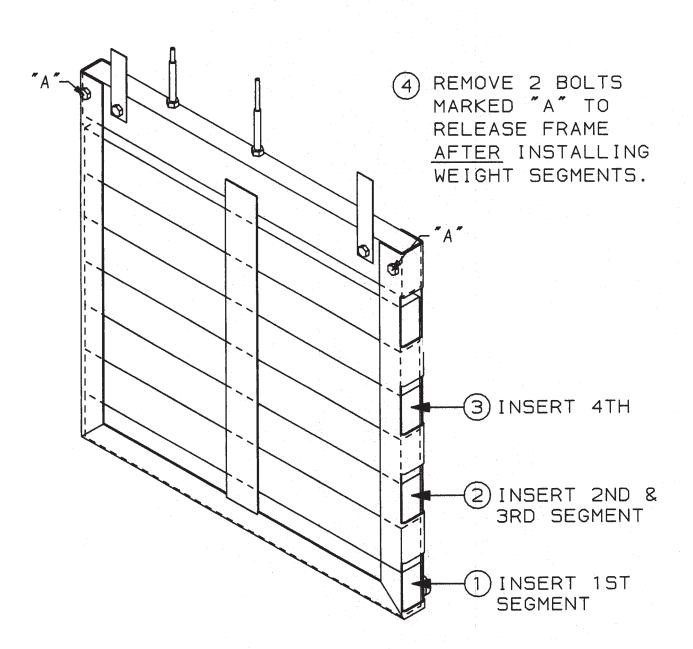
- a. Unscrew the deadweight cap.
- b. Remove the deadweight.
- c. Remove and discard the shipping support.
- d. Clean the deadweight orifice with a dry cloth.
- e. Carefully place deadweight over deadweight orifice. Replace deadweight cap, finger tight.
- 14. Remove the protective paper from the fryer cabinet. Clean exterior surface with a damp cloth.











- \* EACH WEIGHT SEGMENT WEIGHS APPROXIMATELY 18 LBS. (8.1 KG) - HANDLE WITH CARE.
- \* ALL SEGMENTS ARE IDENTICAL.
- \* ALL SEGMENTS MUST BE INSTALLED AND SECURED IN THE FRAME BEFORE ATTEMPTING TO UNLATCH LID.



#### 2-3. SELECTING THE LOCATION

The proper location of the fryer is very important for operation, speed, and convenience. Choose a location which will provide easy loading and unloading without interfering with the final assembly of food orders. Operators have found that frying from raw to finish, and holding the product in a warmer provides fast, continuous service. Landing or dumping tables should be provided next to, at least, one side of the fryer. Keep in mind the best efficiency will be obtained by a straight line operation, i.e., raw in one side and finish out the other side. Order assembly can be moved away with only a slight loss of efficiency. To properly service the fryer, 24 inches (60.96 cm) of clearance is needed on all sides of the fryer. Access for servicing can be attained by removing a side panel. Also, at least 6 inches (15.24 cm) around the base of the unit is needed for proper air supply to the combustion chamber.



To avoid a fire, install the fryer with minimum clearance from all combustible and noncombustible materials, 6 inches (15.24 cm) from side and 6 inches (15.24 cm) from back. If installed properly, the gas fryer is designed for operation on combustible floors and adjacent to combustible walls.

To avoid fire and ruined supplies, the area under the 690 fryer should not be used to store supplies.

Do not spray aerosols in the vicinity of this appliance while it is in operation.



To prevent severe burns from splashing hot shortening, position and install fryer to prevent tipping or movement. Restraining ties may be used for stabilization.

# 2-4. LEVELING THE FRYER

For proper operation, level the fryer from side to side and front to back, using level on the flat areas around the frypot collar.



FAILURE TO FOLLOW THESE LEVELING INSTRUCTIONS CAN RESULT IN SHORTENING OVERFLOWING THE FRYPOT WHICH COULD CAUSE SERIOUS BURNS, PERSONAL INJURY, FIRE, AND/OR PROPERTY DAMAGE.



# **2-5. VENTILATION OF FRYER**

The fryer must be located with provision for venting into adequate exhaust hood or ventilation system. This is essential to permit efficient removal of the flue gases and frying odors. Special precaution must be taken in designing an exhaust canopy to avoid interference with the operation of the fryer. We recommend you consult a local ventilation or heating company to help in designing an adequate system.



Ventilation must conform to local, state, and national codes. Consult your local fire department or building authorities.

2-6. GAS SUPPLY

The gas fryer is factory available for either natural or propane gas. Check the data plate on the right side panel of the cabinet to determine the proper gas supply requirements. The minimum supply for natural gas is 7 inches water column (1.74 kPa), and 10 inches water column (2.49 kPa) for propane.



Do not attempt to use any gas other than that specified on the data plate. Incorrect gas supply could cause a fire or explosion resulting in severe injuries and/or property damage.

Please refer below for the recommended hookup of the fryer to main gas line supply.



To avoid possible serious personal injury:

- Installation must conform with local, state, and national codes, and be in accordance with Canadian Gas Authority Standard CSA B149-& 2,Installation Codes - Gas Burning Appliances and in accordance with Australian Gas Association current edition of AS5601 Gas Installations.
- The fryer and its manual shutoff valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of 1/2 psig (3.45kPa)(34.47mbar)



# 2-6. GAS SUPPLY (Continued)

- The fryer must be isolated from the gas supply piping system by closing its manual shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 psig (3.45 kPa) (34.47 mbar).
- A standard 3/4 inch, black steel pipe and malleable fittings should be used for gas service connections.
- Do not use cast iron fittings.
- Although 3/4 inch size pipe is recommended, piping should be of adequate size and installed to provide a supply of gas sufficient to meet the maximum demand without undue loss of pressure between the meter and the fryer. The pressure loss in the piping system should not exceed 0.3 inch water column (0.747 mbar).

Provisions should be made for moving the fryer for cleaning and servicing. This may be accomplished by:

- 1. Installing a manual gas shutoff valve and disconnect union, or
- Installing a heavy-duty (min. 3/4 inch) design A.G.A. certified connector which complies with standard connectors for moveable gas appliances. ANSI Z21.69 or CAN/CSA 6.16. Also, a quick-disconnect coupling which complies with the Standard for Quick-Disconnect Devices for use with Gas Fuel, ANSI Z21.41 or CAN 1-6.9. Also, adequate means must be provided to limit the movement of the fryer without depending on the connector and any quick-disconnect device or its associated piping to limit the fryer movement.
- 3. See the illustration on the following page for the proper connections of the flexible gas line and cable restraint.

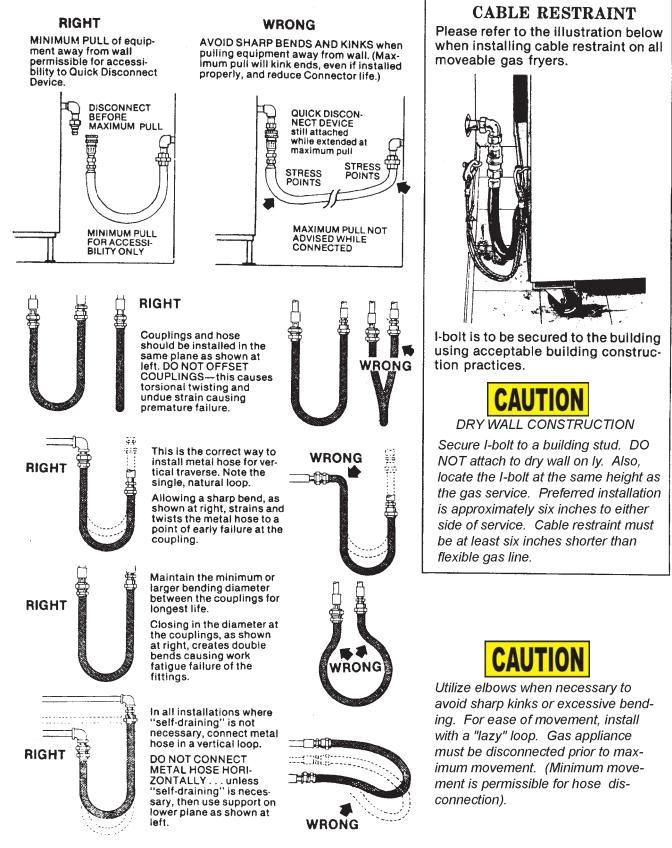


The cable restraint limits the distance the fryer can be pulled from the wall. For cleaning and servicing the fryer, the cable must be unsnapped from the unit and the flexible gas line disconnected. This will allow better access to all sides of the fryer. The gas line and cable restraint <u>must</u> be reconnected once the cleaning or servicing is complete.



#### 2-6. GAS SUPPLY (Continued)

#### Continueu





## 2-7. GAS LEAK TEST



Prior to turning the gas supply on, be sure the gas valve knob on the gas control valve is in the OFF position. The word OFF is at the bottom of the knob when the valve is closed.

Upon initial installation, and after moving the unit, the piping and fittings should be checked for gas leaks. A simple checking method is to turn on the gas, and brush all connections with a soap solution. If bubbles occur, it indicates escaping gas. In this event, the piping connection must be redone.



To avoid fire or explosion, never use a lighted match or open flame to test for gas leaks. Ignited gas could result in severe personal injury and/or property damage.

# The gas pressure regulator on the gas control valve is factory set as follows:

Natural: 3.5 inches water column (0.87 kPa) Propane: 10.0 inches water column (2.49 kPa)



The gas pressure regulator has been set by Henny Penny and is not to be adjusted by the user.



MAKE SURE GAS PRESSURE IS SET CORRECT-LY. FAILURE TO DO SO CAN RESULT IN SHORTENING OVERFLOWING THE FRYPOT, WHICH COULD CAUSE SERIOUS BURNS, PER-SONAL INJURY, FIRE, AND/OR PROPERTY DAMAGE.

## 2-8. GAS PRESSURE REGULATOR SETTING



#### 2-9. ELECTRICAL REQUIREMENTS

The gas fryer requires 120 volt, 60 Hertz, 1 phase, 10 amp, 3-wire grounded (earthed) service, or 230 volt, 50 Hertz, 1 phase, 5 amp, service. The 120 volt gas fryer is factory equipped with a grounded (earthed) cord and plug for your protection against shock, and should be plugged into a three-prong grounded (earthed) receptacle. Do not cut or remove grounding (earthing) prong. A wiring diagram is located behind the right side panel, and can be accessed by removing the side panel. The 230 volt plug must conform to all local, state, and national codes.



To avoid electrical shock, <u>do not disconnect the ground</u> (earth) plug. This fryer <u>must</u> be adequately and safely grounded (earthed). Refer to local electrical codes for correct grounding (earthing) procedures or in absence of local codes, with The National Electrical Code, ANSI/ NFPA No. 70-(the current edition). In Canada, all electrical connections are to be made in accordance with CSA C22.1, Canadian Electrical Code Part 1, and/or local codes.

To avoid electrical shock, this appliance must be equipped with an external circuit breaker which will disconnect all ungrounded (unearthed) conductors. The main power switch on this appliance does <u>not</u> disconnect all line conductors.



## **BOIL-OVER PREVENTION IN HENNY PENNY FRYERS**



FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN SHORTENING OVERFLOWING THE FRYPOT WHICH COULD CAUSE SERIOUS BURNS, PERSONAL INJURY, FIRE, AND/OR PROPERTY DAMAGE.

- THE SHORTENING SHOULD BE STIRRED <u>ONLY</u> DURING THE MORNING START-UP PROCEDURE. <u>DO NOT STIR THE SHORTENING AT ANY</u> <u>OTHER TIME.</u>
- FILTER THE SHORTENING AT LEAST TWICE A DAY.
- FILTER ONLY WHEN "COOL" IS DISPLAYED.
- BRUSH ALL CRACKLINGS FROM FRYPOT SURFACES AND THE COLD ZONE DURING THE FILTERING PROCESS.
- MAKE SURE THE FRYER IS LEVEL.
- BE CERTAIN THE SHORTENING IS NEVER ABOVE THE UPPER FRYPOT LEVEL INDICATOR LINES.
- BE CERTAIN THAT THE GAS CONTROL VALVE AND BURNERS ARE PROPERLY ADJUSTED (GAS UNITS ONLY).
- USE RECOMMENDED PRODUCT LOAD SIZE.

FOR ADDITIONAL INFORMATION ON THESE INSTRUCTIONS, REFER TO THE HENNY PENNY OPERATOR'S MANUAL AND THE KFC STANDARDS LIBRARY.

FOR ASSISTANCE, CALL THE HENNY PENNY SERVICE DEPARTMENT AT 1-800-417-8405 OR 1-937-456-8405.