



## INSTALLATION AND OPERATING INSTRUCTIONS

*Dante* SERIES

# GAS CHAR BROILERS

Models: F, C and L

**INTENDED FOR OTHER THAN HOUSEHOLD USE  
RETAIN THIS MANUAL FOR FUTURE REFERENCE  
BROILER MUST BE KEPT CLEAR OF COMBUSTIBLES AT ALL TIMES**

### **IMPORTANT INSTRUCTIONS**

After the gas supply has been connected to your unit, it is extremely important to check piping for possible leaks. To do this, use soap and water solution or solutions which are expressly made for this purpose. **DO NOT USE** matches, candles, flames, or other sources of ignition since these methods are extremely dangerous.

Post in a prominent location instructions to be followed in the event you smell gas. Obtain these instructions from your local gas supplier.



**FOR YOUR SAFETY:** *Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.*



**WARNING:** *Improper installation, adjustment, alteration, service or maintenance can cause property damage, injury or death. Read the Installation, Operating and Maintenance Instructions thoroughly before installing or servicing this equipment.*



This equipment has been engineered to provide you with year round dependable service when used according to the instructions in this manual and standard commercial kitchen practices.



**BAKERS PRIDE OVEN CO., INC.**

30 Pine Street  
New Rochelle, NY 10801

P/N U4180A 3/07

+1 (800) 431-2745 US & Canada  
+1 (914) 576-0200 Phone  
+1 (914) 576-0605 Fax

sales@bakerspride.com E-Mail  
www.bakerspride.com Web Address

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**NOTE:** Description of Model numbers and Definition of Prefixes used throughout this manual are shown below:

MODEL DEFINITION		
<b>F</b> = Floor Model	<b>C</b> = Counter Top Model	<b>L</b> = Low Profile Model
<b>R</b> = Radiant Type	<b>GS</b> = Glo-Stone Type	<b>H</b> = High-Heat

MODEL SIZES							
<b>(F, C, L) Width (R, GS)- (H)</b>	<b>24</b>	<b>30</b>	<b>36</b>	<b>48</b>	<b>60</b>	<b>72</b>	<b>84</b>
Number of Burners	5	6	8	11	14	17	20

BTU/hr (x 1,000) (North America)							
Standard	75	90	120	165	210	255	300
High-Heat	90	108	144	198	252	306	360

# I. INSTALLATION INSTRUCTIONS

## 1. INSTALLATION:

- (i) Installation of this broiler must conform with the latest edition of ANSI Z223.1/NFPA National Fuel Gas Code in USA (CSA-B-149.1 or 2 Installation Code in Canada) and/or local codes.
- (ii) Use this Broiler only with an adequately sized exhaust hood. The room in which this broiler is installed must be suitably vented in accordance with the National and or local codes.
- (iii) **In MASSACHUSETTS:** All gas products must be installed by a "Massachusetts" licensed plumber or gas fitter. Ventilation hoods must be installed in accordance with NFPA-96, current edition, with interlocks as described in that standard.

## 2. ACCEPTABLE CLEARANCES:

Due to intense heat generated by radiation, only non-combustible construction should be provided. In USA and Canada these broilers should be installed in non-combustible locations only.

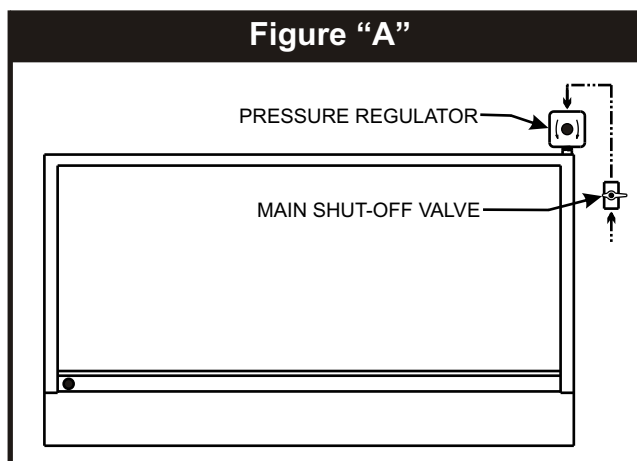
- (i) Minimum Clearance From Non-Combustible Construction.

Right	Left	Back	Floor
0	0	0	4" (100 mm)

## 3. GAS CONNECTION:

A separate gas shut off valve (supplied with unit) must be installed in a readily accessible location in the gas line ahead of the pressure regulator (see figure "A"). The gas pressure regulator supplied must be installed on the gas inlet pipe of the broiler (see below). Each regulator is adjusted to yield a pressure of 3.5" water column (9 mbar) for Natural Gas or 10" water column (25 mbar) for Propane Gas.

All products used with combustible gas, including gas pressure controls, **must** be installed and used **strictly** in accordance with the manufacturer's instructions and all applicable government codes and regulations and plumbing practices.



Do not use the gas pressure regulator if it appears to have been tampered with or damaged in any way as this may affect proper operation and may create potentially dangerous conditions.

Install the regulator properly with the direction of gas flowing as indicated by the arrow on the casting. (The arrow must be pointing to the Gas Appliance).

Use a pipe compound or thread sealant that is compatible with the gas supplied to the regulator and apply it in accordance with the manufacturer's recommendation.

Apply wrench pressure only to the flat area at the threaded end of the regulator **closest** to the gas appliance to avoid fracturing the regulator body.

Make sure markings or paintings on the regulator are not painted over or otherwise obliterated.

Check carefully for gas leaks immediately after the regulator has been installed and the gas turned on. **Do this before attempting to operate the appliance.** Use a soap and water solution (or other accepted leak tester) around all pipe joints. It is a good practice to periodically check for gas leaks during use of the appliance. **Do not use the appliance if a gas leak is detected.**

Recommended minimum gas supply lines are listed below for Broilers:

**24" to 36" W:** 3/4" (19 mm)      **48" to 84" W:** 1" (25.4 mm)

When making gas pipe connections, only pipe joint compound resistant to the action of liquefied petroleum gases should be used.

The broiler and its individual shut-off valve must be disconnected from the gas supply system during any pressure testing of that system at test pressure in excess of ½ psig (3.45 kpa).

The broiler must be isolated from the gas supply piping system by closing its individual manual shut-off valve during any pressure testing of the gas supply piping system at test pressures equal to or less than ½ psig (3.45 kpa).

#### **4. BURNERS:**

Air-Mixer caps on the front of all burners are adjusted and tightened before the unit leaves the factory. If it is necessary to adjust the Air-Mixer caps, the adjustment must be done by a factory authorized technician only, who should tighten the adjustment screw after the adjustment. (See Figure "E")

- (i) Place the front venturi end of the burner onto valve assembly by fitting the center hole of the Air-Mixer cap over the brass orifice accessible through holes in the Chamber Front.
- (ii) Drop the rear end flange of the burner into the corresponding slot in the burner support at the rear of the chamber.
- (iii) While most of the Burners are H-shaped Double Burners, the 24", 48" and 72" models come with one additional single Burner each. Place all of the H-shaped Burners first, then insert the single burner into the remaining space. (See Figure "D")

#### **5. RADIANT UNITS:**

- (i) If the Broiler was ordered with Grease Catches, place them with the slotted front end over the upturned fingers of the radiant support in front and rest the back end on top of the upturned fingers in the rear. (See Figure "D")
- (ii) Place the 'A' shaped radiants over the burners with each end supported on the radiant supports in front and rear of the chamber. Pushing the radiants all the way to the back will provide more heat in the front, while pushing them all the way to the front will provide more heat in the back.
- (iii) Place the Top Grates, wider flange toward the back, onto the top grate supports in the rear. Every broiler is supplied with a sufficient number of Top Grates to cover the entire broiling area. Two of them are 4-1/2" wide and the rest are 6" wide. Flipping these Top Grates upside down and choosing between two supports in the rear, four positions are possible for different slopes desired.

#### **6. GLO-STONE UNITS:**

- (i) Hold the Glo-Stone Frame (one or more, depending on the size of the Broiler) over the desired location and lower it slowly onto the Radiant Supports in the front and back of the chamber until it fits in between the upturned fingers of the supports. Rock it back and forth to assure proper fit.
- (ii) Spread one layer of Glo-Stones covering all of the expanded metal grate exposed.  
**IMPORTANT NOTE: DO NOT USE MORE THAN ONE LAYER OF GLO-STONES, AS THIS WILL REDUCE THE AMOUNT OF HEAT REACHING THE TOP GRATES AND CAN CAUSE OVERHEATING AND PERMANENT DAMAGE TO THE UNIT.**
- (iii) Place the Top Grates, wider flange toward the back, onto the top grate supports in the rear. Every broiler is supplied with a sufficient number of Top Grates to cover the entire broiling area. Two of them are 4-1/2" wide and the rest are 6" wide. Flipping these Top Grates upside down and choosing between two supports in the rear, four positions are possible for different slopes desired.

## 7. GREASE DRAWER, WATER PANS:

- (i) A Grease Drawer is provided at the very left of each Broiler to collect the grease from the Grease Trough above.
- (ii) Depending on the size of the Broiler, one or more Water Pans are provided to collect any drippings from the broiling area above. Water Pans assist in making cleaning simple and easy. Water should at all times be present, and replenished as needed, to reduce flare-ups and flash-back and to prevent the bottom of the broiler from getting too hot.
- (iii) One Grease Deflector is provided to prevent burning matter from getting into the Grease Drawer and igniting the accumulated grease there. To install this Grease Deflector, clip its bottom edge to the left side of the Water Pan next to the Grease Drawer, push down all the way, then slide the Pan back into place. (See Figure "F")
- (iv) Grease Drawer, Grease Deflector and Water Pans should be cleaned daily or even more frequently, if necessary.

## 8. GRIDDLE PLATE (Optional):

The Griddle plate should not cover more than 50% of the broiling area. The Griddle Plate should be placed on top of the top grates, which for this purpose should be in the flat position.

## 9. SMOKER BOX (Optional):

- (i) This Smoker Box consists of a Wood Chip Drawer and two covers, the longer one in the back and the shorter one with the handle in the front. On the F and C models this Smoker Box rests on the Wire Rack (optional). On the "L" models this Smoker Box slides onto supports (optional) located in the Water Pan. (See Figure "F")

## 10. LIGHTING INSTRUCTIONS:

- (i) Turn all Broiler and any Carry-Over Valves to the "OFF" position.
- (ii) Open main gas shut-off valve.
- (iii) Allow air to bleed from the gas line through the individual Pilot Burners or, if applicable, open one of the Carry-Over valves.
- (iv) Light each individual Pilot Burner (see Figure "B"), or Carry-Over Lighter Tube (see Figure "C") if applicable, by inserting a lit taper, or lighter, through the 1/2" diameter lighter holes located above the Control Panel.  
**Note:** Adjustment screws for the Pilot Valves (see Figure "B") are adjusted to provide a 1/4" (6 mm) high flame. If adjustment is required, it should be done by a factory authorized technician only.
- (v) Turn the burner control valve to 'ON' to light the burners. If any burner fails to light, turn the burner valve to 'OFF', wait five minutes, then repeat the above procedure.
- (vi) After all burners have been lit properly, turn each burner valve 'OFF' and make sure that the Pilot Burners, or Carry-Over tube(s), stay lit.

Each burner may now be adjusted to the desired flame size by turning the individual burner valve handle.

**TO SHUT DOWN THE UNIT, TURN ALL VALVES 'OFF'. WAIT FIVE MINUTES BEFORE ATTEMPTING TO RE-LIGHT.**

**NOTE:** The individual Pilot Burners will stay lit until the Gas Supply to the whole Broiler is turned 'OFF' while gas to the Carry-Over Lighter Tube(s) can be shut off by turning the corresponding Gas Valve to the 'OFF' position.

## 11. ADDITIONAL INSTRUCTIONS:

- (i) Keep the area around the broiler free and clear of all combustible material.
- (ii) Provision of adequate supply of air to your broiler is essential. Provide for sufficient outside air to enter the broiling area and assure that this air flow is not obstructed.
- (iii) Air enters the burner area from the front of your broiler only. Assure that this area is kept open and unobstructed.

## 12. INSTALLATION WITH CASTERS:

### ***THIS IS AVAILABLE FOR FLOOR MODELS ONLY.***

Four casters (two with wheel brakes) and the mounting hardware is packed and included in the shipment, if ordered. Install casters with wheel brakes on the front of the unit.

Installation of the unit should be made with a connector that complies with the latest edition of the Standard for Connectors for Movable Gas Appliances ANSI Z21.69, in the USA (CAN CGA-6.16 in Canada) and a quick disconnect device that complies with the latest edition of the standard for quick disconnect devices for use with gas fuel ANSI Z21.41 in the USA (CAN 1-6.7 in Canada.) Adequate means must be provided to limit the movement of the appliance without depending on the connector and any quick disconnect device or its associated piping to limit the appliance movement.

The restraint should be attached to the right side of the back of the unit close to the gas inlet pipe. If disconnect of the restraint is necessary, the restraint should be reconnected after the appliance has been returned to its originally installed position **BEFORE** the gas line is reconnected.

## II OPERATING INSTRUCTIONS

***ONLY QUALIFIED PERSONNEL, PROPERLY TRAINED AND FAMILIAR WITH THIS EQUIPMENT SHOULD OPERATE THIS BROILER.***

### 1. LIGHTING INSTRUCTIONS:

See Section 10 of Installation Instructions.

Once each individual Pilot Burner, or the Carry-Over Lighter Tube, is lit, the Main Burners of the broiler may be turned "ON", "OFF" or to "Low" by turning the corresponding Control Knob located in the front of the Broiler under the Work Deck.

**Note: The "Low" flame can be adjusted up or down by turning the small screw in the center of the valve stem. (See Figure "E")**

### 2. BROILING:

***BROILER TOP GRATES MUST BE HOT ENOUGH TO MAKE BLACK CHAR MARKS WHEN STARTING TO BROIL.***

Adequate preheating time is necessary for the food to release from the broiler grates and to cook properly. Before Broiling, allow Radiant units to preheat for 10-15 minutes and Glo-Stone units for 20-25 minutes.

- (i) Do not press the juice out of the meat as this will dry out the meat.
- (ii) After Broiling, allow the meat to sit covered on a heated platter for 2-5 minutes before cutting. This will allow the juices to 'settle' and the meat will be more moist.
- (iii) Do not use forks or other sharp objects to poke holes in the meat. Do not cut the meat as it cooks.
- (iv) Thick pieces of meat require longer broiling time with less flare-up. Reduce flare-up by trimming excess fat for a longer broil time without burning.
- (v) Keep the unit clean. Food caught between the grate will not allow hot air to rise around the product. This will result in uneven heat, increase the cook time and can cause the Broiler to overheat which may result in permanent damage.

### III. MAINTENANCE

#### 1. SERVICE:

**ALL SERVICING SHOULD BE PERFORMED BY A FACTORY AUTHORIZED TECHNICIAN ONLY.**

Shut off the main gas supply before attempting any maintenance or service on the unit. If required, contact your dealer, a local service company or the factory to obtain a qualified technician for the required maintenance/service. A separate list of Dealer and Service locations has been included with your broiler..

#### 2. CARE AND CLEANING:

##### (A) FOR ALL MODELS.

- (i) TOP GRATES: The top grates should be cleaned daily with a stiff wire brush or steel wool. The rods, especially the underside of the rods, need to be scraped clean of all accumulated food and fat. A light coat of oil should be applied to the rods after cleaning.  
**Under no circumstances should the Top Grates be placed in a dishwasher. Soap, Water, or any detergent, should never be used on Cast Iron.**
- (ii) OUTER SIDES AND FRONT: These are stainless steel surfaces. Commercial stainless steel cleaners are available for this purpose.
- (iii) INNER COOKING AREA: These are stainless steel surfaces. Make sure that all residue is removed before cooking is resumed.
- (iv) WOOD CHIP DRAWERS: The Drawers should be removed and cleaned every day or more frequently if necessary. The Covers should be removed and cleaned frequently so that drippings do not accumulate.
- (v) WATER PANS: Water Pans and the Grease Drawer should be cleaned daily or more often if necessary.

##### (B) FOR RADIANT MODELS:

STAINLESS STEEL: These should be removed and cleaned frequently so that drippings do not accumulate.

CAST IRON: These should be removed and cleaned daily with a stiff wire brush. **Under no circumstances should these Radiants be placed in a dishwasher. Soap, Water, or any detergent, should never be used on Cast Iron.**

##### (C) FOR GLO-STONE MODELS:

- (i) CARE OF GLO-STONES: On a daily basis, when the top grates are removed for cleaning, the Glo-Stones should be mixed about to break away any carbon deposit so it may fall through the expanded metal bottom grates. Then spread the Glo-Stones evenly and add more, if necessary, but only the amount necessary for a single layer.
- (ii) CARE OF BOTTOM GRATES: Periodically push all the Glo-Stones to one side and inspect the bottom grates and underlying support angles. If necessary, remove the Glo-Stones and brush the grates, top and bottom, with a stiff wire brush.



**CAUTION: CLEAN THE UNIT ONLY WHEN IT IS COLD. ALWAYS RUB WITH THE GRAIN WHEN CLEANING STAINLESS STEEL. DO NOT USE CHLORINE BLEACH. DO NOT USE ABRASIVE PADS OR STEEL WOOL FOR CLEANING. DO NOT USE CAUSTIC CLEANING COMPOUNDS ON ALUMINIZED SURFACES.**





## IV. ILLUSTRATIONS:

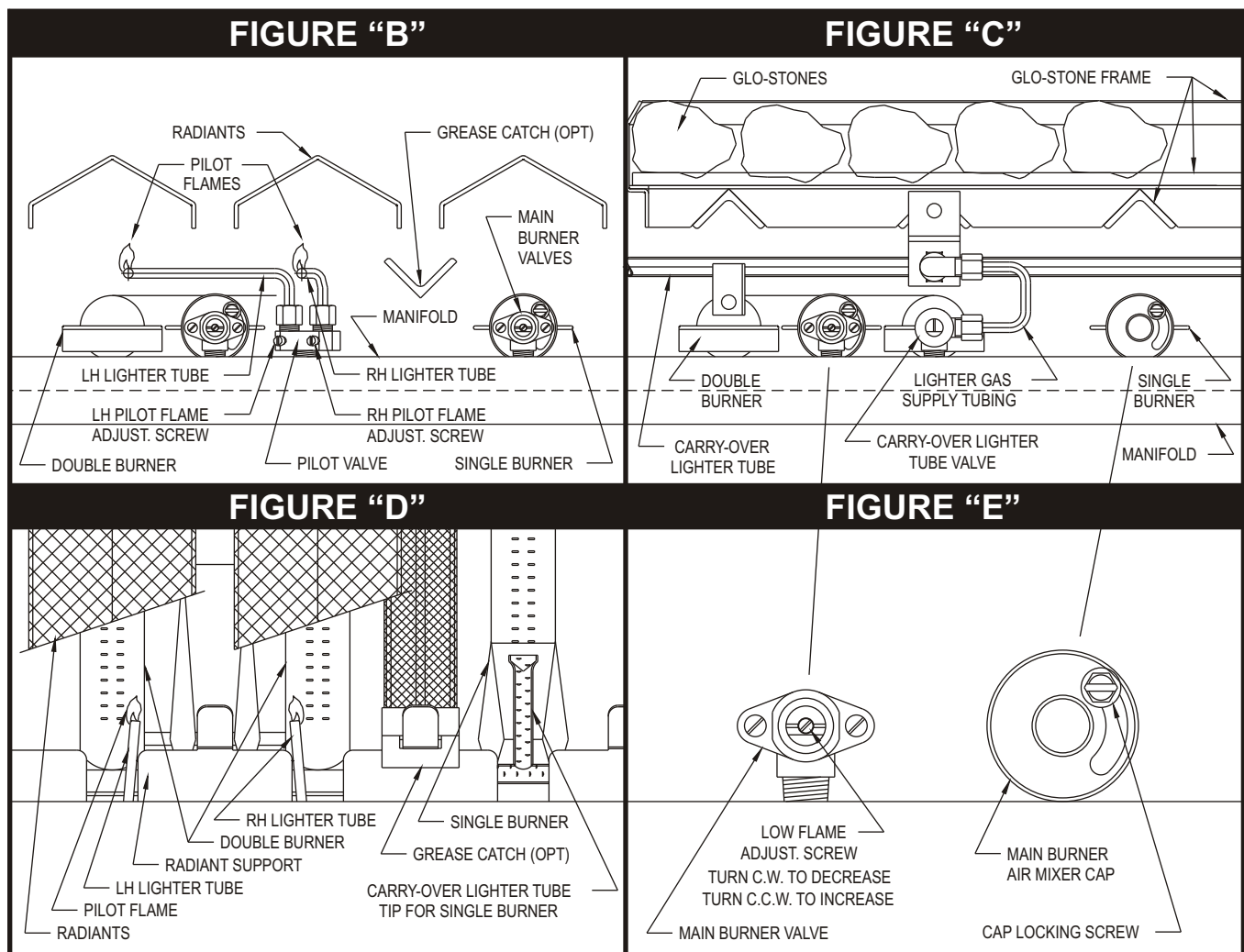
- (i) See Figure "F" for typical Top View and Front Views of a Cabinet Style Broiler. Both Radiant and Glo-Stone type are shown and so are Single and Double Burners, Lighter Tubes and Carry-Over Lighter Tube to illustrate and identify the various components utilized. For more details see Figures B, C, D and E.

## V. REPLACEMENT PARTS

A complete list of Replacement Parts available for this series of Gas Char Broilers is included under separate cover. Always give the Model number, Serial number and type of Gas when ordering Replacement Parts.

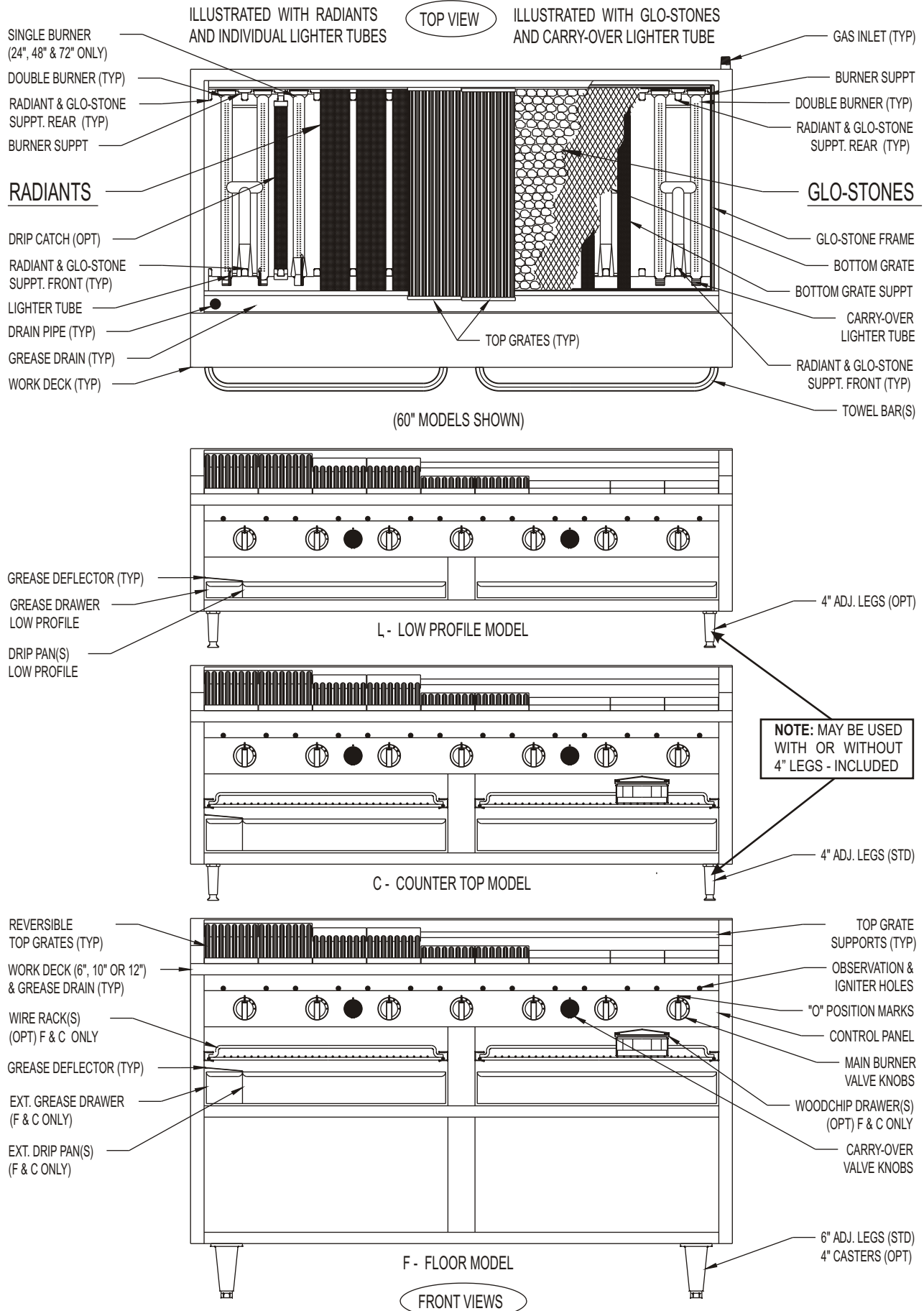
## VI. SERVICE CENTERS:

A complete list of Bakers Pride Factory Authorized Service Centers is included under separate cover. Always have the Model Number, the Serial Number and type of Gas available before calling for Service.





**Figure "F" TOP & FRONT VIEWS**



<b>IMPORTANT FOR FUTURE REFERENCE</b>		
Please complete this information and retain this manual for the life of the equipment. For Warranty Service and/or Parts, this information is required.		
_____	_____	_____
Model Number	Serial Number	Date Purchased

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_____	_____	_____
Model Number	Serial Number	Date Purchased

[illegible]



## VII. BAKERS PRIDE LIMITED WARRANTY

30 Pine Street New Rochelle, New York 10801  
914 / 576 - 0200 ♦ US & Canada: 1 - 800 - 431 - 2745 ♦ fax 914 / 576 - 0605

WHAT IS COVERED	<p>This warranty covers defects in material and workmanship under normal use, and applies only to the original purchaser providing that:</p> <ul style="list-style-type: none"><li>♦ The equipment has not been accidentally or intentionally damaged, altered or misused;</li><li>♦ The equipment is properly installed, adjusted, operated and maintained in accordance with National and local codes, and in accordance with the installation instruction provided with the product;</li><li>♦ The serial number rating plate affixed to the equipment has not been defaced or removed.</li></ul>
WHO IS COVERED	<p>This warranty is extended to the original purchaser and applies only to equipment purchased for use in the U.S.A.</p>
COVERAGE PERIOD	<p>Full size gas and electric deck ovens: Two (2) year limited parts and labor: Cyclone Convection Ovens: BCO Models: One (1) Year limited parts and labor; GDCO Models: Two (2) Year limited parts and labor; CO II Models: Two (2) Year limited parts and labor; (5) Year limited door warranty.</p> <p>All Other Products: One (1) Year limited parts and labor.</p> <p>Warranty period begins the date of dealer invoice to customer or ninety (90) days after shipment date from BAKERS PRIDE - whichever comes first.</p>
WARRANTY COVERAGE	<p>This warranty covers on-site labor, parts and reasonable travel time and travel expenses of the authorized service representative up to (100) miles, round trip, and (2) hours travel time. The purchaser, however, shall be responsible for all expenses related to travel, including time, mileage and shipping expenses on smaller counter models that may be carried into a Factory Authorized Service Center, including the following models: PX-14, PX-16, PI8, and BK-18.</p>
EXCEPTIONS	<p>All removable parts in BAKERS PRIDE Char-broilers, including but not limited to: Burners, Grates, Radiants, Stones and Valves, are covered for a period of SIX MONTHS.</p> <p>All Ceramic Baking Decks are covered for a period of THREE MONTHS. The installation of these replacement decks is the responsibility of the purchaser.</p> <p>The extended Cyclone door warranty years 3 through 5 is a parts only warranty and does not include labor, travel, mileage or any other charges.</p>
EXCLUSIONS	<div><ul style="list-style-type: none"><li>♦ Negligence or acts of God,</li><li>♦ Thermostat calibrations after (30) days from equipment installation date,</li><li>♦ Air and Gas adjustments,</li><li>♦ Light bulbs,</li><li>♦ Glass doors and door adjustments,</li><li>♦ Fuses,</li><li>♦ Char-broiler work decks and cutting boards,</li><li>♦ Tightening of conveyor chains,</li><li>♦ Adjustments to burner flames and cleaning of pilot burners,</li><li>♦ Tightening of screws or fasteners.</li></ul></div> <div><ul style="list-style-type: none"><li>♦ Failures caused by erratic voltages or gas supplies,</li><li>♦ Unauthorized repair by anyone other than a BAKERS PRIDE Factory Authorized Service Center,</li><li>♦ Damage in shipment,</li><li>♦ Alteration, misuse or improper installation,</li><li>♦ Thermostats and safety valves with broken capillary tubes,</li><li>♦ Accessories - spatulas, forks, steak turners, grate lifters, oven brushes, scrapers, peels, etc.,</li><li>♦ Freight - other than normal UPS charges,</li><li>♦ Ordinary wear and tear.</li></ul></div>
INSTALLATION	<p>Leveling and installation of decks, as well as proper installation and check out of all new equipment - per appropriate installation and use materials - is the responsibility of the dealer or installer, not the manufacturer.</p>
REPLACEMENT PARTS	<p>BAKERS PRIDE genuine Factory OEM parts receive a (90) day materials warranty effective from the date of installation by a BAKERS PRIDE Factory Authorized Service Center.</p>

This Warranty is in lieu of all other warranties, expressed or implied, and all other obligations or liabilities on the manufacturers part. BAKERS PRIDE shall in no event be liable for any special, indirect or consequential damages, or in any event for damages in excess of the purchase price of the unit. The repair or replacement of proven defective parts shall constitute a fulfillment of all obligations under the terms of this warranty.

Form #U4177A 1/07



**BAKERS PRIDE OVEN CO., INC.**

30 Pine Street  
New Rochelle, NY 10801

+1 (800) 431-2745 US & Canada  
+1 (914) 576-0200 Phone  
+1 (914) 576-0605 Fax

sales@bakerspride.com E-Mail  
www.bakerspride.com Web Address