

GARLAND®

Bring Your Passion to the Surface

CG Series Production Griddle

Installation, Operations and Maintenance Manual

Model:

CG-48FCH



Original Document

Document #: G_GC_IOM__CHGRIDDLE_4610167 - 04/23



IMPORTANT INFORMATION

**FOR YOUR SAFETY:
DO NOT STORE OR USE GASOLINE
OR OTHER FLAMMABLE VAPORS OR
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**

DO NOT OBSTRUCT THE FLOW OF COMBUSTION AND VENTILATION AIR TO THIS APPLIANCE.

PLEASE READ ALL SECTIONS OF THIS MANUAL AND RETAIN FOR FUTURE REFERENCE.

THIS PRODUCT HAS BEEN CERTIFIED AS COMMERCIAL COOKING EQUIPMENT AND MUST BE INSTALLED BY PROFESSIONAL PERSONNEL AS SPECIFIED.

IN THE COMMONWEALTH OF MASSACHUSETTS THIS PRODUCT MUST BE INSTALLED BY A LICENSED PLUMBER OR GAS FITTER.

For Your Safety:

Post in a prominent location, instructions to be followed in the event the user smells gas. This information shall be obtained by consulting your local gas supplier.

Users are cautioned that maintenance and repairs must be performed by a Garland authorized service agent using genuine Garland replacement parts. Garland will have no obligation with respect to any product that has been improperly installed, adjusted, operated or not maintained in accordance with national and local codes or installation instructions provided with the product, or any product that has its serial number defaced, obliterated or removed, or which has been modified or repaired using unauthorized parts or by unauthorized service agents. For a list of authorized service agents, please refer to the Garland web site at <http://www.garland-group.com>. The information contained herein, (including design and parts specifications), may be superseded and is subject to change without notice.

WARNING:

This product contains chemicals known to the State of California to cause cancer and/or birth defects or other reproductive harm. Installation and servicing of this product could expose you to airborne particles of glass wool/ceramic fibers. Inhalation of airborne particles of glass wool/ceramic fibers is known to the State of California to cause cancer. Operation of this product could expose you to carbon monoxide if not adjusted properly. Inhalation of carbon monoxide is known to the State of California to cause birth defects or other reproductive harm.

Keep appliance area free and clear of combustibles.

In the event you have any questions concerning the installation, use, care or service of the product, please refer to the Garland web site at <http://www.garland-group.com> or call 1-844-724-2273.

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DIMENSIONS AND SPECIFICATIONS

INSTALLATION NOTES		MINIMUM SUPPLY PRESSURE REQUIRED		ELECTRICAL CHARACTERISTICS
Combustible Wall Clearances		Natural	Propane	Specifications
Sides	Back	7" W.C. (17.4mbar)	11" W.C. (27.4mbar)	120 V, Single Phase, 60Hz, 1A 6' (1829mm) power cord provided. Optional: 208-240V, Single Phase, 60Hz, 0.4A
		MANIFOLD PRESSURE REQUIRED, AFTER BUILT-IN REGULATOR		
6" (152mm)	6" (152mm)	3.5" W.C. (8.75 mbar)	10" W.C. (25mbar)	
<ul style="list-style-type: none"> IMPORTANT: Unit must be installed on legs for proper air circulation. A minimum 4" (101mm) air space must be maintained below unit for required air flow to burners. 		<ul style="list-style-type: none"> Gas Input Ratings shown are for installations up to 2,000 feet (610m) above sea level. BTU input ratings must be derated for high altitude installations 		<ul style="list-style-type: none"> NOTE: No cord and plug provided on optional 208-240V. Direct connection to junction box.
ENTRY CLEARANCE		VENTILATION		
Crated	Uncrated	<ul style="list-style-type: none"> Commercial cooking equipment requires an adequate ventilation system. For additional information, refer to the National Fire Protection Association's Standard NFPA 96. 		
40" (1016mm)	38" (965mm)			

INPUT CHART - Natural Or Propane Gas					
Model Number	BTU/ HOUR	Kw	Gas Inlet	Shipping Weight	
				LBS.	KGS.
CG-48FCH	120,000	35.00	3/4"	625	284

INSTALLATION

IMPORTANT: The installation must comply with local codes, or in the absence of local codes, with

CAN/CSA - B149 Installation Code – latest edition or with the National Fuel Gas Code NFPA 54 ANSI Z223 .1 – latest edition . All burner adjustments and settings shall be made by a qualified gas technician .

Serial Plate Location

Burner input is shown on the Serial/Rating Plate of each unit, located on the bottom of the control section near the front .

When corresponding with the factory or your local authorized factory service center regarding service problems or replacement parts, be sure to refer to the particular unit by the correct model number (including the prefix and suffix letters and numbers) and the warranty serial number . The rating plate contains this information .

INSTALLATION Continued

We suggest installation, maintenance and repairs should be performed by your local authorized service agency listed in your information pamphlet.

In the event you have any questions concerning the installation, use, care or service of the product, write or call our Product Service Department.

This product must be installed by professional personnel as specified. Garland/U.S. Range products are not approved or authorized for home or residential use, but are intended for commercial applications only. Garland / U.S. Range will not provide service, warranty, maintenance or support of any kind other than for commercial applications.

General Information

Damage Check: Check carton or crate for possible damage incurred in shipping. After carefully examining, check for "concealed" damage. Report any damage immediately to your carrier.

Legs, Casters & Leveling

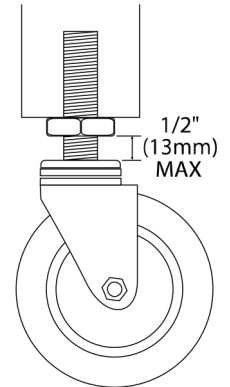
1. The unit must be installed on the legs or casters provided. A minimum 4 inch (101 mm) air space must be maintained below the unit for required air flow to the burner systems. Avoid placing any objects under the unit which could obstruct air flow to the burner systems.
2. For models equipped with casters, the installation shall be made with a connector that complies with the Standard for Connectors for Moveable Gas Appliances, ANSI Z21.69/CSA 6.16, Addenda Z21.69B-2006/CSA 6.16B-2006 (or latest edition), and a quick-disconnect device that complies with the Standard for Quick Disconnects for Use with Gas Fuel, ANSI Z21.41/CSA 6.9, Addenda Z21.41A-2005/CSA 6.16A-2005 (or latest edition).
3. Adequate means must be provided to limit movement of the appliance without depending on the connector and quick disconnect device or associated piping. This can be accomplished by attaching restraining chains/cables from floor or rear wall to rear of unit.

Ensure front casters are kept in the locked position except when the unit must be moved for cleaning or servicing, etc.

4. When the unit is installed in its operating location, level the unit by adjusting the leveling legs. Use a level across the front rear, and sides of each unit.

NOTE: The griddle plate may not rest evenly on the unit body if the unit is not properly leveled.

5. Each caster has a threaded stem to aid in leveling only. No caster should be adjusted beyond a maximum of one-half inch, (1/2"/13mm) of exposed thread with the locking nut tight against the stand leg, as shown.



Clearances

This unit must be installed in accordance with the following clearances in order to provide proper operation and servicing of the appliance.

Clearances	Sides		Back
	Left	Right	
Combustible	6" (152mm)	6" (152mm)	6" (152mm)
Noncombustible	0"	0"	0"
Service	Not Required		

Type of Floor or Base	Combustible
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Gas Connections

1. A readily accessible gas shut-off valve is provided on each unit, attached to the main manifold under the unit. The gas supply connection must be made with minimum 3/4 inch NPT pipe. Larger than 3/4 inch (19 mm) supply pipe may be required when a long run of supply pipe is necessary. Consult the pipe capacity tables in the B149 or NFPA54 installation code.
2. Have a qualified gas technician check the gas pressure to make certain that the existing gas facilities (meter, piping, etc.), will deliver the BTU's of gas required at the unit, with no more than 1/2 inch (12 mm) water pressure drop. When checking pressure, be certain that all the equipment on the same gas line is turned "ON".
3. The appliance and its individual shut off 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. (3.45 KPA).

INSTALLATION Continued

4. The appliance 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 1/2 PSIG. (3.45 KPA).
5. Make certain that new piping, joints and connections have been made in a clean manner and have been purged, so that the piping compound, chips, etc., will not clog valves and/or controls. Use pipe joint sealant that is approved for use with liquefied petroleum gas.
6. **WARNING:** Check all gas connections for leaks, using a soap solution or similar means. Do not check with an open flame.
7. Each thermostat controls one zone burner through a combination dual solenoid/pressure regulator valve, complete with a pressure test spigot. The gas pressure on each combination valve must be checked when the unit is installed to ensure that the gas pressure is the same as specified on the Serial/Rating plate. For access to the pressure test spigots, turn the main power switch to the "OFF" position as a safety precaution, and hinge the lower front panel downwards. Pressure test spigots are located at the rear of each combination valve, including pilot combination valves. When your manometer is connected to the first combination valve for test, turn the manual unit shut off valve, located under the unit, to the on position (valve handle in line with piping). Turn the main power switch to "ON". When all burners are operating, check the reading on the manometer. If not in accordance with the pressure specified on the Serial/Rating Plate, adjust the combination valve regulator accordingly. When satisfied with manometer reading, turn the main power switch to "OFF", remove the manometer test tube and recap the test spigot. Repeat this operation on each combination valve until each pressure regulator is set correctly. Turn each thermostat and the main power switch to "OFF".

NOTE: Make certain no electrical connections have been disturbed before replacing front panels.

Electrical Connection

IMPORTANT: This appliance must be electrically grounded in accordance with local codes, or in the absence of local codes, with the Canadian Electrical Code C22.1 (latest edition) or with the National Electrical Code ANSI/NFPA No. 70 (latest edition), whichever is applicable.

WARNING: Electrical Grounding Instructions

1. This appliance is equipped with a three prong (grounding) plug for your protection against shock hazard and should be plugged directly into a properly grounded three prong receptacle. Do not cut or remove the grounding prong from this plug.
2. A separate 15 amp service must be provided. For 120 volt usage, each unit is electrically equipped with a cord set with a three prong plug which fits any standard 120 volt, three prong grounded receptacle.
3. When the unit is ordered and built for 208/240 volt, the supply line must be connected to the wiring terminations located inside the terminal box. For ease in attaching the supply line, there is a removable cover on the terminal box. A wiring diagram is attached to the rear panel of each unit.

Ventilation

The unit must be installed in a location in which the facilities for ventilation permit satisfactory combustion of gas and proper venting. Proper ventilation is imperative for good operation of the appliance. The ideal method of ventilating a gas unit is the use of a properly designed ventilating canopy, which should extend at least 6" (152 mm) beyond all sides of the appliance (except against the wall, if the canopy is a wall installation). This is usually part of a mechanical exhaust system.

1. Appliances shall be located so as not to interfere with proper circulation of air within the confined space. All gas burners require sufficient air to operate.
2. Large objects should not be placed in front of the appliance which might obstruct the air flow through the front. Do not obstruct the flow of combustion and ventilation air.
3. Do not permit fans to blow directly at the appliance, and wherever possible, avoid open windows adjacent to the appliance sides and back; also wall type fans which create air cross currents within the room.

OPERATION INSTRUCTIONS

Lighting Instructions

1. First, make certain that the main power switch is set to "OFF"
2. Connect the electrical power cord to 120 volt supply.
3. Turn the gas shut off valve to the "OPEN" position (valve handle in line with piping)..
4. Turn the main power switch to "ON", power switch green indicator should illuminate. Wait until gas pilot, green indicator illuminates followed by the main burner amber light indicator.

NOTE: Should pilot ignition fail after a few minutes turn the main power switch to "OFF".

Wait 5 minutes, then turn the main power switch back to "ON".

5. The amber burner indicators cycle with thermostat operation.

NOTE: During an electrical power interruption, turn power switch to the "OFF" position. This unit cannot be made to operate without electrical power.

Shut Down Instructions

1. Turn main power switch to "OFF".
2. For extended shut down, turn main power switch to "OFF," close the manual gas shutoff valve and unplug the electrical cord set.

ADJUSTMENTS

NOTE: Each griddle has been factory tested and adjusted prior to shipment. It may be necessary to further adjust the unit as part of a proper installation. Such adjustments are the responsibility of the installer. Adjustments are not considered to be defects in material and workmanship, and they are not covered under the original equipment warranty.

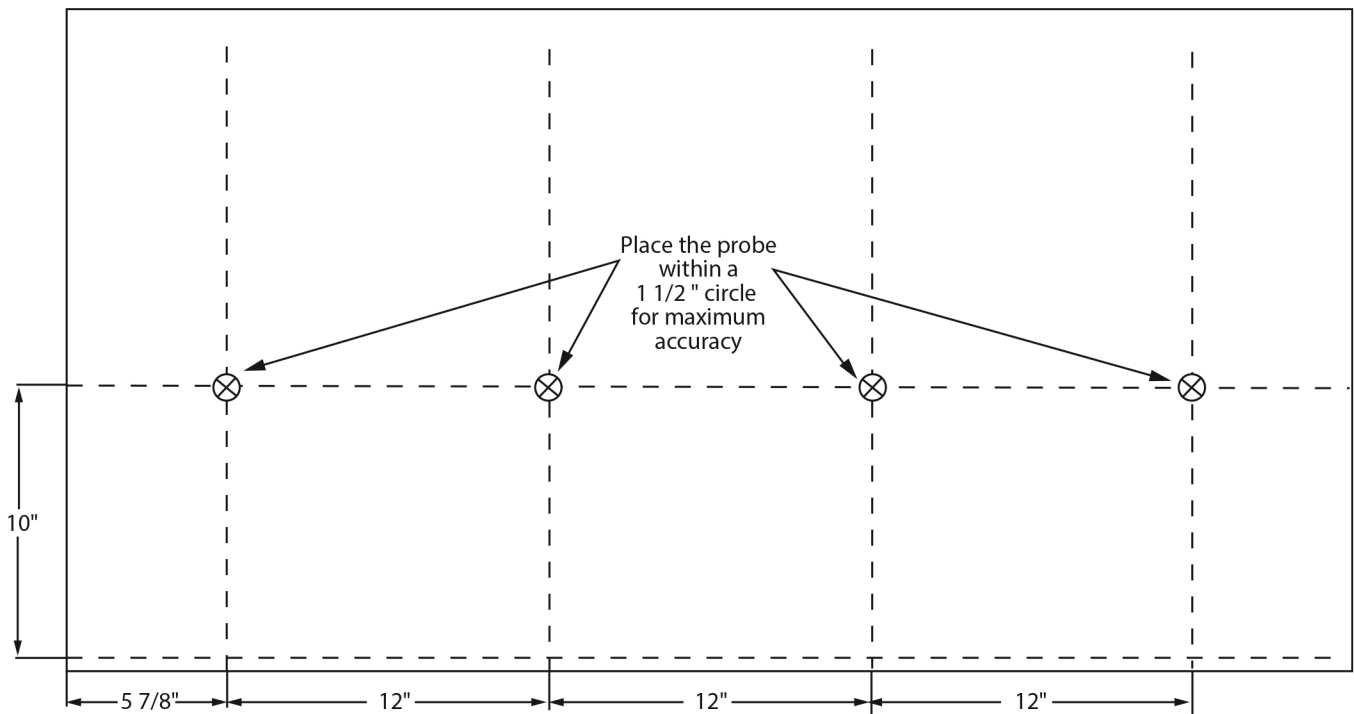
Thermostat Temperature Verification

1. The unit thermostats are pre-set to 500° F.
Preheat the grill for 30 minutes before proceeding.

ADJUSTMENTS Continued

- Place the surface temperature probe in the locations indicated on Diagram A. Watch the amber indicator for the zone being measured. When the amber indicator is ON the burner for that zone is on. When the amber indicator goes OFF note the temperature. The measured temperature at the time the amber indicator switches off should be no more than $\pm 5^{\circ}\text{F}$ from 500°F . If the temperature is greater than $\pm 10^{\circ}\text{F}$, consult a service technician.

Drawing A



MAINTENANCE & CLEANING

Stainless Steel

Stainless steel should be cleaned using a mild detergent, a soft cloth and hot water. If it is necessary to use a non-metallic scouring pad, always rub in the direction of the grain in the metal to prevent scratching. Wash a small area at a time and rinse the washed area with a clean sponge dipped into a disinfectant and wipe dry with a soft clean cloth.

Use only stainless steel, wood or plastic tools to scrape off heavy deposits of grease or oil. Do not use ordinary steel scrapers or knives, as particles of iron may become embedded and rust.

NEVER USE STEEL WOOL

Griddles

Preparing A New Griddle

1. Remove the protective coating on the surface using a mild detergent.
2. Thoroughly rinse the griddle with vinegar and water solution (3/4-cup vinegar per quart of water) and dry.

Seasoning the Griddle

1. Using a clean cloth, rub a thin and even layer of oil onto a cool griddle surface. Oil should be an unsalted shortening or high temperature cooking oil.
2. Turn the griddle on and heat the griddle surface until the oil begins to caramelize (turn a golden brown colour).
3. Scrape off the caramelized oil with a standard spatula.
4. Turn the griddle off and let it cool. Once cool to the touch, turn the griddle back on and repeat steps 1, 2 and 3.
5. The griddle is now seasoned and ready for use.

Cleaning Instructions (After Each Use)

1. Using a traditional 64mm-76mm (2 1/2"-3") scraper or spatula scrape the griddle surface (to remove food particles and oil residues) towards the grease trough using even back to front strokes. Deposit debris into the chute.

2. Using a clean cloth, rub a thin and even layer of oil into the griddle surface.
3. Remove the grease drawer, empty and wash thoroughly with soap and water. Replace.

Cleaning Instructions (For Heavy Build Up)

NOTE: After using cleaners and grease cutter, re-season the griddle.

Apply to a warm griddle for best results.

1. Using a traditional 64mm-76mm (2 1/2"-3") scraper or spatula scrape the griddle surface (to remove food particles and oil residues) towards the grease trough using even back to front strokes. Deposit debris into the chute.
2. Apply griddle cleaner evenly over the griddle surface and let sit as directed. Follow the procedures on the label of the specific cleaning product.
3. Using a traditional scraper or spatula, sash around the griddle cleaner to remove the build up.
4. Scrape the griddle surface towards the grease trough using even back to front strokes. Repeat step 2 if necessary.
5. Using a mild detergent, clean the surface and rinse thoroughly with a water and vinegar solution. Dry griddle.
6. Using a clean cloth rub a thin and even layer of oil into the griddle surface.
7. Re-season the griddle as detailed above. The griddle is now ready for use.

Griddle Do's & Don'ts

Do's

1. Season the griddle. This will prevent foods from sticking and make it easier to keep the surface clean.
2. Keep the surface clean. Scraping the surface throughout production to clear foods and oils prevents build up and will make it easier to keep the surface clean.

MAINTENANCE & CLEANING Continued

Don'ts

1. Do not use salt to clean the griddle surface. Salt is corrosive and can cause pitting of the griddle.
2. Do not allow metal utensils, spatula, scraper, etc. to nick and/or dent the surface of the griddle. The edges of these utensils are sharp and will create divots that oil can collect in and caramelize which will cause sticking.
3. Do not use the griddle as a hot top. A large pan or pot will trap heat and can cause the griddle plate to warp.
4. Do not overheat the griddle to preheat faster. Preheating only takes 15 – 20 minutes.

SERVICING

To ensure efficient and safe operation of the appliance it is recommended that servicing be carried out at regular intervals, the frequency of which will vary, depending on the installation conditions and usage. Usually once per year is adequate.

Servicing must be carried out by competent persons in accordance with the law.

SAFETY

It is essential that the instructions in this booklet be strictly followed for the safe and economical operation of the equipment. If it is known or suspected that a fault exists on

the appliance then it must not be used until a competent person has rectified the fault.

TROUBLE SHOOTING GUIDE

PROBLEM	CHECKS REQUIRED	ACTION REQUIRED
1. No Heat	Is cord set plugged into receptacle?	Connect cord to receptacle or check fuse/breaker
	Is Manual Gas Valve turned to "ON"?	Turn Manual Gas Valve to "ON"
	Is Main Power switch indicator illuminated?	Turn Main Power switch to "OFF" wait 5 minutes, then turn Main power switch to "ON". If condition persists, send for a qualified service technician.
2. One Zone Not Hot Enough		Send for a qualified service technician.
3. One Zone Too Hot	Is thermostat indicator constantly "ON"?	Send for a qualified service technician.

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