




# Installation, Operation & Maintenance Instructions

## Model CN – SM – 36 Salamander Broiler



 **WARNING:** IMPROPER INSTALLATION, ADJUSTMENT, ALTERATION, SERVICE MAINTENANCE CAN CAUSE PROPERTY DAMAGE, INJURY OR DEATH. READ THE INSTALLATION, OPERATING AND MAINTENANCE INSTRUCTIONS THOROUGHLY BEFORE INSTALLING OR SERVICING THIS EQUIPMENT.

Please call the Service Department and ask for contact information for your local service company.

11990 Rivera Rd. Santa Fe Springs, CA 90670  
Telephone:(714) 547-9218 (562) 464 - 9901  
[www.connertoncooking.com](http://www.connertoncooking.com)

## **IMPORTANT FOR YOUR SAFETY**

THIS MANUAL HAS BEEN PREPARED FOR PERSONNEL QUALIFIED TO INSTALL GAS EQUIPMENT, WHO SHOULD PERFORM THE INITIAL FIELD START-UP AND ADJUSTMENTS OF THE EQUIPMENT COVERED BY THIS MANUAL.

POST IN A PROMINENT LOCATION THE INSTRUCTIONS TO BE FOLLOWED IN THE EVENT THE SMELL OF GAS IS DETECTED. THIS INFORMATION CAN BE OBTAINED FROM THE LOCAL GAS SUPPLIER.

### **IMPORTANT**

IN THE EVENT A GAS ODOR IS DETECTED, SHUT DOWN UNITS AT MAIN SHUTOFF VALVE AND CONTACT THE LOCAL GAS COMPANY OR GAS SUPPLIER FOR SERVICE.

### **FOR YOUR SAFETY**

DO NOT STORE OR USE GASOLINE OR OTHER FLAMMABLE VAPORS OR LIQUIDS IN THE VICINITY OF THIS OR ANY OTHER APPLIANCE.



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# INSTALLATION, OPERATION AND CARE OF SALAMANDER BROILERS

## GENERAL

Salamander Broilers are produced with quality workmanship and material. Proper installation, usage, and maintenance of your broiler will result in many years of satisfactory performance.

It is suggested that you thoroughly read this entire manual and carefully follow all of the instructions provided.

Product parameter:

Model	BTU	Orifice size		Regulator pressure	
		Nat.	LP	Nat.	LP
36" Salamander	35000NG/32000LP	#31	#52	5"WC	10"WC

**THIS APPLIANCE IS EQUIPPED FOR NATURAL GAS.**

For Natural gas when equipped with No. #31 drill size orifice. For LP gas when equipped with No.#52drill size orifice.

For conversion to LP gas orifice see instruction plate on the appliance, see Page 11.

## INSTALLATION

Before installing, verify that the type of gas supply (natural or propane) agrees with the specifications on the rating plate located underneath the broiler rack drip tray. If the supply and equipment requirements do not agree, do not proceed with the installation. Contact your dealer immediately.

### UNPACKING

**Immediately after unpacking, check for possible shipping damage. If the broiler is found to be damaged, save the packaging material and contact the carrier within 15 days of delivery.**

**Before installing, verify that the type of gas (natural or propane) and the clearance dimensions (see below) agree with the specifications on the rating plate which is located under the crumb tray on the right side.**

### LOCATION

The equipment area must be kept free and clear of combustible substances.

Minimum Clearance	Combustible Construction	Non-Combustible Construction
Rear	2"	0"
Sides	2"	0"
Bottom	0"	0"

The installation location must allow adequate clearances for servicing and proper operation. A minimum front clearance of 24" is required.

Do not obstruct the flow of combustion and ventilation air. Adequate clearance for air openings into the combustion chamber must be provided. Make sure there is an adequate supply of air in the room to replace air taken out by the ventilating system. Do not permit fans to blow directly at the broiler. Avoid wall-type fans which create air cross currents within the room. Avoid open windows next to the broiler. Maintain an 18" (46 cm) clearance from the top of the broiler flue vent to the filters of the hood venting system.

## INSTALLATION CODES AND STANDARDS

The broiler must be installed in accordance with:

In the United States of America:

1. State and local codes.
2. National Fuel Gas Code, ANSI-Z223.1/NFPA #54 (latest edition). This shall include but not be limited to: NFPA #54 Section 10.3.5.2 for Venting. Copies may be obtained from The American Gas Association Accredited Standards Committee Z223, @ 400N. Capital St. NW, Washington, DC 20001 or the Secretary Standards Council, NFP A, 1 Battery March Park Quincy, MA 02169 -7471

NOTE: In the Commonwealth of Massachusetts

All gas appliances vented through a ventilation hood or exhaust system equipped with a damper or with a power means of exhaust shall comply with 248 CMR.

3. NFPA Standard # 96 Vapor Removal from Cooking Equipment, latest edition, available from the National Fire Protection Association, Batterymarch Park, Quincy, MA 02269. In Canada:

1. Local codes.
2. CAN/CSA-B 149.1 Natural Gas Installation (latest edition)
3. CAN/CSA-B 149.2 Propane Installation Code (latest edition), available from the Canadian Gas Association, 178 Rexdale Blvd., Etobicoke, Ontario, Canada M9W 1R3

The appliance and its individual 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 psi (3.5 kPa).

The appliance must be isolated from the gas supply piping system by closing its individual pressures equal to or less than 1/2 psi (3.5 kPa).

## GAS CONNECTIONS

Codes require that a gas shutoff valve be installed in the gas line ahead of the broiler.

**NATURAL GAS:** Standard orifices are set at 5" W.C. (Water Column). A pressure regulator is supplied and must be installed when the broiler is connected to the gas supply.

**LP GAS:** Standard orifices are set at 10" W.C. (Water Column). A pressure regulator is supplied and must be installed when the broiler is connected to the gas supply.

The gas supply line must be  $\frac{3}{4}$ " or larger. If flexible or semi-rigid connections are used, the inside diameter must be the equivalent of  $\frac{3}{4}$ " iron pipe or larger. All connections of the flexible and semi-rigid type must comply with all local and national requirements. Make sure gas piping is clean and free of dirt, piping compound, and obstructions.

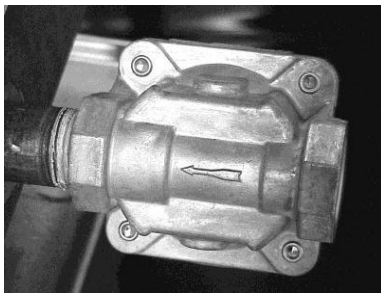
**WARNING:** PRIOR TO LIGHTING, CHECK ALL JOINTS IN THE GAS SUPPLY LINE FOR LEAKS. USE SOAP AND WATER SOLUTION. DO NOT USE AN OPEN FLAME.

After piping has been checked for leaks, all piping receiving gas should be fully purged to remove air.

### **GAS PRESSURE REGULATOR INSTALLATION**

Gas regulator pressure is preset at 5" Water Column (W.C.) for natural gas, and 10" W.C. for propane gas. Minor adjustments may be required based on site specific gas pressure.

Install the regulator as close to the broiler on the gas supply line as possible. Make sure that the arrow on the underside of the regulator is oriented in the direction of gas flow to the broiler (**Fig. 1**) and the regulator is positioned with the vent plug and adjustment screw upright (**Fig. 2**). A recommended plumbing schematic is listed below only for Salamander units as guide to the installer and it is in no way liable for plumbing installation (**Fig. 3**).



**Fig. 1**



**Fig. 2**

**Fig. 3**

The minimum supply pressure (upstream of the regulator) should be 7-9" W .C. for natural gas and 11 - 12" W .C. for propane gas. At no time should the regulator be connected to supply pressure greater than ½ psi (3.5 k Pa) or 14" W .C.

## FLUE CONNECTIONS

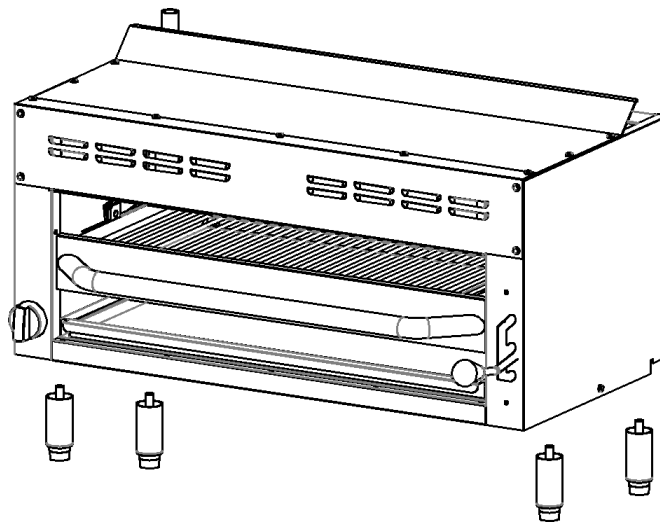
**DO NOT** obstruct the flow of flue gases from the flue located on the rear of the broiler. It is recommended that the flue gases be ventilated to the outside of the building through a ventilation system installed by qualified personnel.

Information on the construction and installation of ventilating hoods may be obtained from the standard f or "Vapor Removal from Cooking Equipment," NFPA No. 96 (latest edit ion), available from the National Fire Protection Association, Batterymarch Park, Quincy, MA 02269.

## ASSEMBLY

Salamander Broiler placed on a Countertop.

1. Unpack the leg kits package, it should be inside salamander.
2. Turn tightens four legs into bottom of salamander.
3. Put salamander on the table or other countertop.
4. Adjust legs, let salamander be leveled and stabled.
5. Connect gas supply pipe with salamander input pipe.



# OPERATION

**WARNING:** THE BROILER AND ITS PARTS ARE HOT. BE CAREFUL WHEN OPERATING, CLEANING OR SERVICING THE BROILER.

## CONTROLS

**Angled Handle** —Elevates or lowers the broiling grid to different positions. Grasp the handle and pull towards broiler cavity. This releases the mechanism and allows the lifting handle to move into the desired position.

**Burner Valve** — Regulate the flow of gas to the burners. Gas flow is increased by turning the valve counterclockwise.

**Drip Tray** —Collects grease and waste which is diverted by the tilt of the drip shield. DO NOT allow the drip tray to overflow. Empty the drip tray when three-quarters full to reduce the possibility of spillage.

**Rack Handle** — Glides the grid forward for easy loading and unloading. To operate, pull straight out.

## LIGHTING, RELIGHTING AND SHUTDOWN INSTRUCTIONS

1. Turn burner valve to the OFF position and wait 5 minutes.
2. Light the pilot adjacent to the main burner. Adjust the pilot valve screw until the pilot flame has a slight yellow tip.
3. After the pilot has been established, turn the burner valve to the ON position.
4. If the burners fail to light, turn off all valves, wait 5 minutes and repeat steps 1 -3.
5. To shut down, turn the burner valve s to the OFF position.

## RACK POSITION AND GAS SETTING

Each operator will find the optimum rack position and gas setting for various products; however, it is recommended that gas input be reduced first when lower rack temperatures are desired. Further reduction in rack temperatures, if necessary, can then be obtained by lowering rack position. Infrared burner must use the full gas setting. Max and minimum temperatures can be achieved at the following settings:

**Rack at highest position, valve s set to High –**

**800°F** Rack at lowest position, valve s set to

**Low – 250°F**

## CLEANING

1. Allow broiler to cool.
2. To remove broiler rack for cleaning, adjust broiler rack to center position.

3. Position left and right hands simultaneously on edges of broiler rack and raise both rack stops.
4. Slide broiler rack and drip tray forward past rack stops, (which must be pivoted out of the way) holding tray up against racks.
5. Remove broiler rack and drip tray from broiler.
6. Let the back of tray drop down to vertical to allow front hooks to disengage.
7. Remove drip pan from broiler rack and clean as you would any normal utensil, using care not to damage the front hooks
8. To replace, hook the drip tray to the broiler rack while tray is in a vertical position.
9. Replace broiler rack and drip tray inside channels while holding tray up close to rack.
10. Clean bottom pan. Slide pan out and wash with soap and water. Rinse thoroughly and wipe dry with a soft, clean cloth.
11. Clean stainless steel surfaces with a mild detergent and water, using a damp cloth, or with a commercial stainless-steel cleaner. Rinse thoroughly and wipe dry with a soft, clean cloth.
12. Burner ports and throats should be thoroughly cleaned. Venturi must be free from grease and lint. **DO NOT** insert pick in burner port holes.

## **MAINTENANCE**

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### **LUBRICATION**

Burner valve stems must be lubricated. Upon sticking, a burner valve stem should receive maintenance from your local authorized servicer.

### **PILOT LIGHTS**

Pilot lights are to be kept clean and adjusted at the proper flame height.

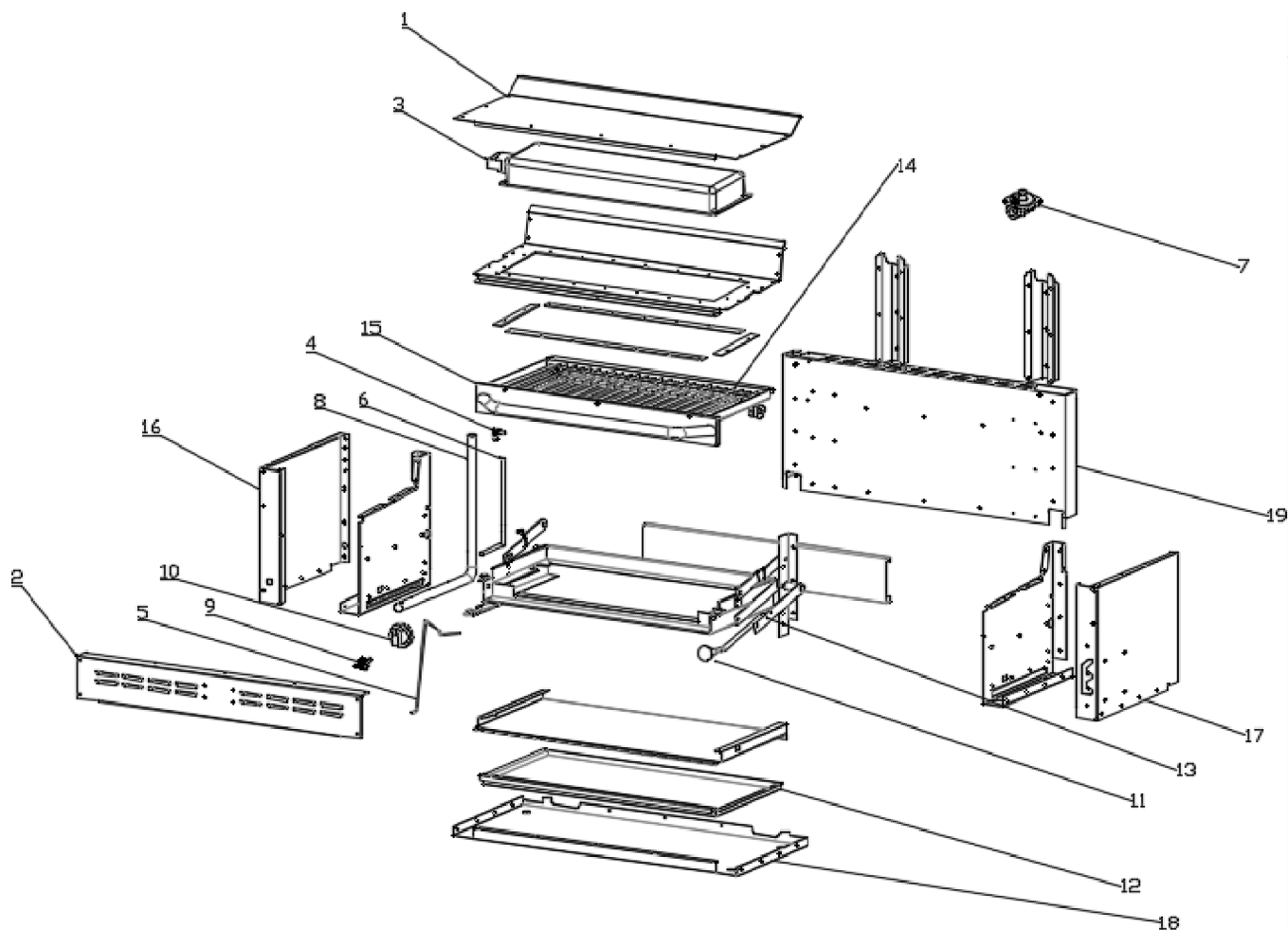
### **VENT**

Annually, when the broiler is cool, check the flue and clear any obstructions.

### **SERVICE AND PARTS INFORMATION**

Contact your local Service Agency to obtain service and parts information.





## Salamander Broiler Part List

1	SM-01-00	Top Cover	11	SM-11-10	Shelf knob FS
2	SM-02-01	Front vent panel	12	SM-12-11	Drip Pan
3	SM-03-02	Burner FS	13	SM-13-12	Shelf Mechanism Assembly
4	SM-04-00-01	NAT GAS Orifice	14	SM-14-13	Wire grill FS
	SM-04-00-02	LP GAS Orifice	15	SM-15-14	Drawer
5	SM-05-04	Pilot gas tube	16	SM-16-15	Left side panel
6	SM-06-05	Burner gas tube Assembly	17	SM-17-16	Right side panel
7	SM-07-06	Regular FS	18	SM-18-17	Bottom panel
8	SM-08-07	Main gas manifold	19	SM-19-18	Rear panel
9	SM-09-08	Gas valve FS			
10	SM-10-09	Knob FS			

## Conversion to LP gas orifice

1. Take out the screws on the top cover, then take off the top cover. You can see the orifice is on the left side of the salamander as below Fig.7 show.



Fig. 7

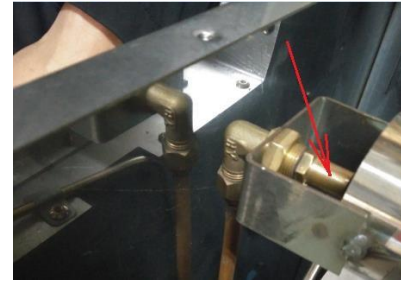


Fig. 8

2. As Fig. 8 show, screw out the Nat. gas orifice [#31( $\phi$ 3.2mm)] counter-clockwise, then screw in the LP gas orifice [#52( $\phi$ 1.68mm)] clockwise.
3. Change the pressure regulator spring kit to LP gas model, set at 10" W .C. (Water Column).



Fig. 9

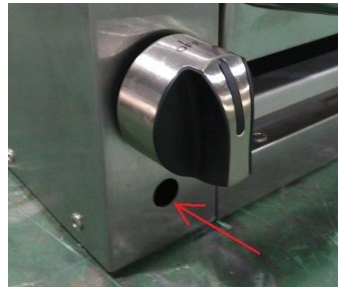
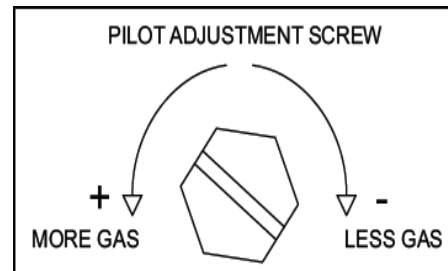


Fig. 10



4. Turn pilot adjustment screw clockwise, then light standing pilot and adjust flame 1/4" high.

A product with the CONNERTON

name incorporates the best in durability and low maintenance. We all recognize, however, that replacement parts and occasional professional service may be necessary to extend the useful life of this unit. When service is needed, contact a CONNERTON Authorized Service Agency, or your dealer. To avoid confusion, always refer to the model number, serial number, and type of your unit.



**LIMITED ORIGINAL COMMERCIAL EQUIPMENT  
WARRANTY FOR THE CN-SM SERIES GAS  
SALAMANDER BROILER**

CONNERTON warrants the CN-SM Gas Salamander broiler to be free of defects in materials and workmanship for a period of 1 year from the date of original installation.

**This Warranty is subject to the following conditions and limitations:**

1. This warranty is limited to product(s) sold by CONNERTON to the original user in the continental United States and Canada.
2. Original installation must occur within 18 months of date of manufacture, and proof of the installation must be provided to CONNERTON.
3. The liability of CONNERTON is limited to the repair or replacement of any part found to be defective.
4. CONNERTON will bear normal labor charges incurred in the repair or replacement of a warranted piece of equipment within 50 miles (80 kilometers) of an authorized service agency. Time and travel charges in excess of 50 miles (80 kilometers) will be the responsibility of the person or firm requesting the service.
5. This warranty does not apply to any product(s) which have not been installed in accordance with the directions published in the appropriate installation and operation manuals. CONNERTON will bear no responsibility or liability for any product(s) which have been mishandled, abused, misapplied, misused, subject to harsh chemical action, (chlorinated or sulfate products), or poor water quality, field modified by unauthorized personnel, damaged by flood, fire, or other acts of nature, or which have altered or missing serial numbers.
6. CONNERTON does not recommend or authorize the use of any product(s) in a non-commercial application, including but not limited to residential use. The use or installation of product(s) in non-commercial applications renders all warranties, expressed or implied, including the warranties of MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE, null and void, including any responsibility for damage, cost and legal actions resulting from the use or installation of product(s) in any non-commercial setting.

7. Adjustments such as calibrations, leveling, tightening of fasteners or utility connections normally associated with original installation are the responsibility of the installer and not that of CONNERTON.

8. Exception to the 1-year warranty period is as listed:

Fry Tanks:

If tank is found to be leaking within the first year of operation from date of installation and verified by an authorized service agency, the entire CN-F Salamander broiler will be replaced. Replacement Salamander broiler will be warranted for the balance of the original warranty. Original purchased replacement parts manufactured by CONNERTON will be warranted for 90 days from the parts invoice date. This warranty is for parts cost only and does not include freight or labor charges. Exceptions are stainless steel fry tanks which will be warranted as stated in item 8.

9. This states the exclusive remedy against CONNERTON relating to the product(s), whether in contract or in tort or under any other legal theory, and whether arising out of warranties, representations, instructions, installations or defects from any cause. CONNERTON shall not be liable, under any legal theory, for loss of use, revenue or profit, or for substituted use or performance, or for incidental, indirect, or special or consequential damages or for any other loss of cost of similar type.

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