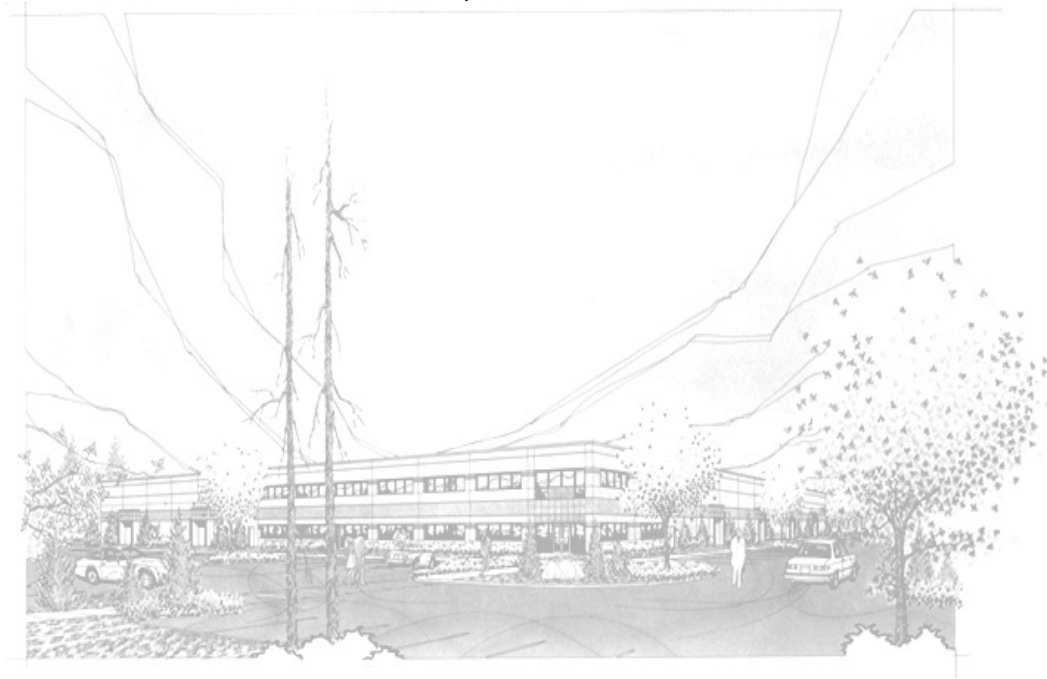




Installation, Operation, & Maintenance
Model: GCCO-PT, Gas Full Size Convection Oven



THIS MANUAL MUST BE RETAINED FOR FUTURE REFERENCE. READ, UNDERSTAND AND FOLLOW THE INSTRUCTIONS AND WARNINGS CONTAINED IN THIS MANUAL.

DANGER

POTENTIALLY HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, COULD RESULT IN DEATH.



WARNING

POTENTIALLY HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, COULD RESULT IN DEATH OR SERIOUS INJURY.



CAUTION

POTENTIALLY HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, MAY RESULT IN MINOR OR MODERATE INJURY.



NOTICE

Helpful operation and installation instructions and tips are present.



FOR YOUR SAFETY

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

POST IN A PROMINENT LOCATION

INSTRUCTIONS TO BE FOLLOWED IN THE EVENT USER SMELLS GAS. THIS INFORMATION SHALL BE OBTAINED BY CONSULTING YOUR LOCAL GAS SUPPLIER. AS A MINIMUM, TURN OFF THE GAS AND CALL YOUR GAS COMPANY AND YOUR AUTHORIZED SERVICE AGENT. EVACUATE ALL PERSONNEL FROM THE AREA.

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.

Model #:	Purchased From:
Serial #:	Location:
Date Purchased:	Date Installed:
Purchase Order #:	For Service, Call:














TABLE OF CONTENTS

CHAPTER	PAGE
TABLE OF CONTENTS	3
READ FIRST	4
EQUIPMENT DESCRIPTION	6
UNPACKING.....	7
INSTALLATION	8
INITIAL START-UP	13
OPERATION	14
MAINTENANCE & CLEANING PROCEDURES.....	18
TROUBLE SHOOTING	19
PARTS LIST	21
WIRING DIAGRAM	22

IMPORTANT

READ FIRST

IMPORTANT

<u>CAUTION</u>	THE OVEN WEIGHS 500 LBS. FOR SAFE HANDLING, INSTALLER SHOULD OBTAIN HELP AS NEEDED, OR EMPLOY APPROPRIATE MATERIALS HANDLING EQUIPMENT (SUCH AS A FORKLIFT, DOLLY, OR PALLET JACK) TO REMOVE THE UNIT FROM THE SKID AND MOVE IT TO THE PLACE OF INSTALLATION.	
<u>CAUTION</u>	ANY STAND, COUNTER OR OTHER DEVICE ON WHICH THE OVEN WILL BE LOCATED MUST BE DESIGNED TO SUPPORT THE WEIGHT OF THE OVEN.	
<u>CAUTION</u>	SHIPPING STRAPS ARE UNDER TENSION AND CAN SNAP BACK WHEN CUT.	
<u>WARNING</u>	INSTALLATION OF THE UNIT MUST BE DONE BY PERSONNEL QUALIFIED TO WORK WITH PLUMBING. IMPROPER INSTALLATION CAN CAUSE INJURY TO PERSONNEL AND/OR DAMAGE TO EQUIPMENT. UNIT MUST BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES.	
<u>NOTICE</u>	The data plate is located above control panel behind wire mesh screen. The oven serial number, gas specifications, and clearance specifications are on the data plate. This information should be carefully read and understood before proceeding with the installation.	
<u>NOTICE</u>	The installation of this griddle must conform to applicable National, State and locally recognized installation standards.	
<u>NOTICE</u>	The installation of any components such as a vent hood, grease extractors, fire extinguisher systems, must conform to their applicable National, State and locally recognized installation standards.	
<u>WARNING</u>	THIS APPLIANCE IS EQUIPPED WITH A 3-PRONG (GROUNDING) PLUG FOR YOUR PROTECTION AGAINST SHOCK HAZARD AND MUST BE PLUGGED DIRECTLY INTO A PROPERLY GROUNDED 3-PRONG RECEPTACLE. DO NOT CUT OR REMOVE THIS GROUNDING PRONG FROM THE PLUG.	
<u>WARNING</u>	CONVECTION OVENS INSTALLED WITH CASTERS MUST HAVE THE FOLLOWING: A CONNECTOR THAT COMPLIES WITH THE STANDARD FOR CONNECTORS FOR MOVABLE GAS APPLIANCES ANSI Z21.69 LATEST EDITION, A QUICK DISCONNECT THAT COMPLIES WITH THE STANDARD FOR QUICK DISCONNECT DEVICES FOR USE WITH GAS FUEL, ANSI Z21.141 LATEST EDITION, A TETHER OR OTHER MEANS TO LIMIT APPLIANCE MOVEMENT WITH OUT RELIANCE ON THE GAS SUPPLY PIPING. SECURELY ATTACH THE TETHER TO THE EYEBOLT PROVIDED AT THE REAR OF THE APPLIANCE.	
<u>NOTICE</u>	Kits designed to accommodate ovens from sea level to 5000 feet. Contact factory for orifice sizes on installations above 5000 feet.	
<u>WARNING</u>	BEFORE LIGHTING, USE A SOAP AND WATER SOLUTION TO TEST ALL JOINTS FOR GAS LEAKS.	
<u>NOTICE</u>	During the first few hours of operation you may notice a small amount of smoke coming off the oven, and a faint odor from the smoke. This is normal for a new oven and will disappear after the first few hours of use.	
<u>CAUTION</u>	ALWAYS KEEP THE AREA NEAR THE APPLIANCE FREE FROM COMBUSTIBLE MATERIALS.	

CAUTION

KEEP FLOOR IN FRONT OF EQUIPMENT CLEAN AND DRY. IF SPILLS OCCUR, CLEAN IMMEDIATELY, TO AVOID THE DANGER OF SLIPS OR FALLS.

**WARNING**

KEEP WATER AND SOLUTIONS OUT OF CONTROLS. NEVER SPRAY OR HOSE CONTROL CONSOLE.

**CAUTION**

MOST CLEANERS ARE HARMFUL TO THE SKIN, EYES, MUCOUS MEMBRANES AND CLOTHING. PRECAUTIONS SHOULD BE TAKEN TO WEAR RUBBER GLOVES, GOGGLES OR FACE SHIELD AND PROTECTIVE CLOTHING. CAREFULLY READ THE WARNING AND FOLLOW THE DIRECTIONS ON THE LABEL OF THE CLEANER TO BE USED.

**NOTICE**

Never leave a chlorine sanitizer in contact with stainless steel surfaces longer than 10 minutes. Longer contact can cause corrosion.

**NOTICE**

Service on this, or any other, LANG appliance must be performed by qualified personnel only. Consult your authorized service station directory or call the factory at 1-800-807-9054 or WWW.STAR-MFG.COM For the service agent nearest you.

**WARNING**

BOTH HIGH AND LOW VOLTAGES ARE PRESENT INSIDE THIS APPLIANCE WHEN THE UNIT IS PLUGGED/WIRED INTO A LIVE RECEPTACLE. BEFORE REPLACING ANY PARTS, DISCONNECT THE UNIT FROM THE ELECTRIC POWER SUPPLY.

**CAUTION**

USE OF ANY REPLACEMENT PARTS OTHER THAN THOSE SUPPLIED BY LANG OR THEIR AUTHORIZED DISTRIBUTORS CAN CAUSE BODILY INJURY TO THE OPERATOR AND DAMAGE TO THE EQUIPMENT AND WILL VOID ALL WARRANTIES.



EQUIPMENT DESCRIPTION

Lang Model: GCCO-PT

Exterior Construction

The oven exterior dimensions are 40" (100 cm) Wide, 32" (80 cm) High, 38" (95 cm) Deep. The Top, Front, Back, and Sides are constructed of stainless steel with an aluminized bottom.

The oven doors come standard with a double pane window.

The door handle is constructed of Stainless Steel and Phonolic Tubing.

The oven cavity is insulated with high temperature insulation for efficiency and reduced heat loss.

Interior Construction

The oven cavity dimensions are 29" (72.5 cm) Wide, 20" (50.84 cm) High, 21" (53.38 cm) Deep.

The interior of the oven is constructed of porcelainized stainless steel.

Operation

The GCCO-PT oven is a forced air convection oven with a vented oven cavity.

The air is driven by a 1/3 HP fan motor.

Controls

Icon driven (touch) panel allows for easy operation.

Complete computerized controls.

Pre-Programmable product selections.

Independent shelf timers for each shelf.

Load control through use of Cooking Curves.

Shelf compensation for uniform baking.

Solid-state temperature sensing and controls.

Dual speed fan.

Manual override controls.

Technical

The GCCO-PT oven operates on either Natural Gas or Propane and can be field converted to either gas.

Floor space required is 48" (122.6 cm) wide, 44" (112.5 cm) deep.

The oven weighs 500 lbs. (227.28 kg).

Contact the factory for correct orifice sizes when installing oven above 4000 ft.

The GCCO-PT has electronic ignition and requires a 120-Volt single-phase connection.

Receiving the Oven

Upon receipt, check for freight damage, both visible and concealed. Visible damage should be noted on the freight bill at the time of delivery and signed by the carrier's agent. Concealed loss or damage means loss or damage, which does not become apparent until the merchandise has been unpacked. If concealed loss or damage is discovered upon unpacking, make a written request for inspection by the carrier's agent within 15 days of delivery. All packing material should be kept for inspection. **Do not return damaged merchandise to Lang Manufacturing Company. File your claim with the carrier.**

Location

Prior to un-crating, move the oven as near to its intended location as practical. The crating will help protect the unit from the physical damage normally associated with moving it through hallways and doorways.

Un-crating

The oven will arrive completely assembled inside a wood frame and strapped to a skid. **Cut the straps and remove the wood frame.**

CAUTION

THE OVEN WEIGHS 500 LBS. FOR SAFE HANDLING, INSTALLER SHOULD OBTAIN HELP AS NEEDED, OR EMPLOY APPROPRIATE MATERIALS HANDLING EQUIPMENT (SUCH AS A FORKLIFT, DOLLY, OR PALLET JACK) TO REMOVE THE UNIT FROM THE SKID AND MOVE IT TO THE PLACE OF INSTALLATION.



CAUTION

ANY STAND, COUNTER OR OTHER DEVICE ON WHICH THE OVEN WILL BE LOCATED MUST BE DESIGNED TO SUPPORT THE WEIGHT OF THE OVEN.



CAUTION

SHIPPING STRAPS ARE UNDER TENSION AND CAN SNAP BACK WHEN CUT.



Remove Oven from skid and place in intended location.

INSTALLATION

WARNING

INSTALLATION OF THE UNIT MUST BE DONE BY PERSONNEL QUALIFIED TO WORK WITH PLUMBING. IMPROPER INSTALLATION CAN CAUSE INJURY TO PERSONNEL AND/OR DAMAGE TO EQUIPMENT. UNIT MUST BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES.



NOTICE

The data plate is located above control panel behind wire mesh screen. The oven serial number, gas specifications, and clearance specifications are on the data plate. This information should be carefully read and understood before proceeding with the installation.



NOTICE

The installation of any components such as a vent hood, grease extractors, fire extinguisher systems, must conform to their applicable National, State and locally recognized installation standards.



Leg Installation

Legs are available for both the single and double deck installations. Single deck installations require a 27-inch leg. Double deck installations require 6-inch legs or casters.

To install the 27-inch legs, place some cardboard on the floor and gently tip the oven onto its back. Fasten two legs to the oven's front corners using the four 5/16 inch bolts provided in the leg kit. Lift the oven onto its front legs and block the back up using one of the 27-inch legs set upside down in the center rear of the oven body. Install the last 27-inch leg onto the oven body on the control side rear. Gently lift the oven rear, remove the leg set to support the oven center and install it on the last rear corner.

To install the 6-inch legs or casters, follow the instructions in the Leg Pad section on the following pages or in the Leg Pad box supplied with the oven.

The adjustable feet on the bottom of each leg may be screwed in or out as necessary to level the oven.

A torpedo level placed on an oven rack will assist in leveling the oven.

Stacking the Ovens

Remove all the plug buttons from the top of the lower oven.

Remove the stacking kit from the oven compartment of one oven and install the 1 1/4-inch plastic bushing into the top of the lower oven.

Tip the top oven backwards and install two 3/8-inch socket head bolts, found in the stacking kit, into the two front leg holes that match the holes in the top of the lower oven. Install the socket head bolts with the heads of the bolt pointing away from the oven.

Lift the top oven and gently set on top of the lower oven so that the heads of the socket head bolts nest into the holes in the top of the lower oven.

INSTALLATION CONT'D

Leg Pad Adapter

Identify the front and rear leg adapters (the front adapters have two threaded inserts, the rear has four).

Leg to Adapter Installation:

Install the leg's threaded stud through the hole in the adapter labeled "C" with the bent flange of the adapter facing away from the leg.

Screw the 3/4-inch nut supplied in the adapter kit onto the leg stud and tighten.

Caster to Adapter Installation:

Place the swivel caster against the front leg adapter with the flange of the adapter facing away from the caster.

Install the four 5/16 inch bolts through the caster base and the adapter holes labeled "A" then install the 5/16 inch nuts with washer and lock washers.

Place the rigid casters against the rear leg adapter with the flange of the adapter facing away from the caster.

Align the caster to the holes in the adapter labeled "B". NOTE: There are two sets of "B" holes set at 90° from the each other. One set will create a left rear adapter and the other set will create a right rear adapter.

Install four 5/16-inch bolts through the caster base and the adapter holes labeled "B" then install 5/16-inch nuts with lock washers and flat washers.

Adapter to Oven Installation:

Gently tip the oven onto its back. Place the front leg adapter into the front corners of the oven. The holes without the threaded inserts face the front of the oven and the flange on the adapter points toward the bottom of the oven.

The edge of the leg adapter with the threaded insert slips under the flange on the oven side, while the edge without the inserts sits on top of the threaded angle on the oven front.

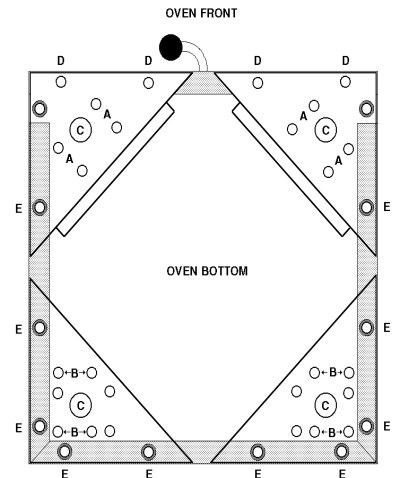
Install two 3/8-inch bolts with lock washers and flat washers through the front holes "D" in the leg adapter and into the threaded inserts on the oven.

Thread one 3/8-inch bolt with lock washer and flat washer into the rear threaded hole labeled "E" on each of the leg adapters.

The forward threaded hole on the front leg adapter does not get a bolt installed.

Place the rear leg adapters into the rear corners of the oven so that the adapter is under the flange of the oven side and back. NOTE: If installing a caster place the adapter on the oven so that the casters roll forward.

Install for 3/8-inch bolts with lock washers and flat washers through the holes labeled "E" in the flange of the oven and into the threaded inserts of the leg adapter.



INSTALLATION CONT'D

Ventilation and Clearances

Standard minimum clearance from combustible construction is as follows.

- 4" from side
- 4" from back
- 6" from floor

These ovens may be set directly, without legs, on a curbed base or **non-combustible** floor.

If the oven is set without legs on a **non-combustible** floor or a curbed base, maintain a 4-inch back clearance.

If the oven is set directly against a **non-combustible** back wall, maintain a 6-inch clearance to the floor.

Do not install the oven closer than 4 inches from another oven on the right hand side (control panel side).

Do not install the oven closer than 12 inches from an uncontrolled heat source (char broiler etc.) on the right side.

Keep the appliance area free and clear of combustible material and do not obstruct the flow of combustion or ventilation air.

The installation of any components such as a vent hood, grease extractors, and/or fire extinguisher systems, must conform to the there applicable nationally recognized installation standards.

WARNING THIS APPLIANCE IS EQUIPPED WITH A 3-PRONG (GROUNDING) PLUG FOR YOUR PROTECTION AGAINST SHOCK HAZARD AND MUST BE PLUGGED DIRECTLY INTO A PROPERLY GROUNDED 3-PRONG RECEPTACLE. DO NOT CUT OR REMOVE THIS GROUNDING PRONG FROM THE PLUG.



Electrical Connection

The electrical connection must be made in accordance with local codes or in the absence of local codes with NFPA No.70, latest edition (in Canada use: CAS STD. C22.1).

The electrical service entrance is provided by a cord and plug located at the oven back directly behind the control compartment.

Each oven requires a 115-volt grounded supply and 7.1 amps.

Supply wire size must be large enough to carry the amperage load for the number of ovens being installed. Wire size information can be found on the oven data plate.

INSTALLATION CONT'D

WARNING

CONVECTION OVENS INSTALLED WITH CASTERS MUST HAVE THE FOLLOWING: A CONNECTOR THAT COMPLIES WITH THE STANDARD FOR CONNECTORS FOR MOVABLE GAS APPLIANCES ANSI Z21.69 LATEST EDITION, A QUICK DISCONNECT THAT COMPLIES WITH THE STANDARD FOR QUICK DISCONNECT DEVICES FOR USE WITH GAS FUEL, ANSI Z21.141 LATEST EDITION, A TETHER OR OTHER MEANS TO LIMIT APPLIANCE MOVEMENT WITH OUT RELIANCE ON THE GAS SUPPLY PIPING. SECURELY ATTACH THE TETHER TO THE EYEBOLT PROVIDED AT THE REAR OF THE APPLIANCE.



Gas Connection

This appliance is manufactured for use with the type of gas indicated on the data plate. Contact the factory if the gas type does not match that which is on the data plate.

All gas connections must be in accordance with local codes and comply with the National Fuel Gas Code ANSI Z223.1 latest edition.

An internal gas pressure regulator is located inside the control compartment.

Gas must be delivered to the appliance regulator at less than 1/2 pound of pressure and less than 1/2-inch water column pressure drop.

The internal regulator is preset at the factory, however, due to gas pressure variations from area to area; it may be necessary to make some minor adjustments to the regulator to provide the manifold pressure indicated on the data plate. This should be 5 inches water column for natural gas and 10-inch water column for propane. A 1/8-inch NPT tap is provided on the main manifold for checking regulator pressure. Access the main manifold by removing the trim piece below the oven doors.

When replacing the 1/8-inch plug in the main manifold a joint sealant that is resistant to the action of liquid petroleum gas must be used.

The supply piping must be of sufficient size to provide 55,000 BTU/hr per oven. A 1/2-inch NPT connection is provided at the rear of the oven directly behind the control compartment. Connect each oven separately.

A gas shut off valve must be installed to the oven(s) and located in an accessible area.

This 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 PSIG and the appliance must be isolated from the gas supply piping system by closing its individual manual shutoff valve during any pressure testing of the gas supply system at test pressures equal to or less than 1/2 PSIG.

Test for gas leaks. Use a commercial leak detector or a soap and water solution.

Flu Installation

A flu extension must be installed on the lower oven of a stacked set.

The extension attaches to the flu opening of the lower oven and directs the flu products into the flu opening of the upper oven.

This extension must be installed.

The ovens may now be set into position. Be careful if sliding the ovens, they are not designed to slide over cracks or obstructions in the floor.

INSTALLATION CONT'D

Gas Conversions

1. Disconnect oven from power and gas.
2. Remove bottom trim piece from oven (2 hex head bolts and 1 Phillips screw).
3. Remove side panel from oven.
4. Disconnect black manifold pipe from 3/8" aluminum pipe at the furrel nut.
5. Remove two Phillips screws holding black manifold pipe to oven.
6. Remove black manifold pipe from oven.
7. Remove both burner orifices from manifold and replace with new orifices, making sure to apply pipe thread compound.
8. Remove two Phillips screws holding pilot assembly to oven.
9. Remove pilot assembly from oven.
10. Remove 1/4" aluminum pipe from pilot assembly.
11. Remove pilot orifice and replace with new pilot orifice.
12. Re-attach 1/4" aluminum pipe to pilot assembly.
13. Re-attach pilot assembly to oven.
14. Re-install black manifold assemblies to oven, making sure that the orifices go into the burner tubes.
15. Re-attach 3/8" aluminum pipe to black manifold assembly.
16. Remove the seal screw from the combination gas valve.
17. Remove the adjustment screw and spring from the combination valve.
18. Insert new spring into the valve and adjustment screw.
19. Re-connect oven to power and gas and check for leaks using a soap solution.
20. Adjust gas pressure to correct water column (5"NG, 10"LP).
21. Install new seal screw provided in kit and affix "Caution" sticker to the visible side of the combination valve.
22. Re-install bottom trim piece and side panel.

NG to LP

Part No.	Description	Qty.
80401-05	Pilot Orifice, Drilled .010	1
80400-14	Main Burner Orifice, Drilled #53	2
80505-11	Combination Gas Valve Spring, Includes: 1. Spring 2. Seal Screw 3. Caution Sticker	1

LP to NG

Part No.	Description	Qty.
80401-10	Pilot Orifice, Drilled .018	1
80400-13	Main Burner Orifice, Drilled #43	2
80505-16	Combination Gas Valve Spring, Includes: 1. Spring 2. Seal Screw 3. Caution Sticker	1

NOTICE

Kits designed to accommodate ovens from sea level to 5000 feet. Contact factory for orifice sizes on installations above 5000 feet.



INITIAL START UP

WARNING BEFORE LIGHTING, USE A SOAP AND WATER SOLUTION TO TEST ALL JOINTS FOR GAS LEAKS.



Pre-Power On

After the oven is installed and connected to power & gas, prior to turning on, verify the following:

- The doors open and close freely.
- All racks are in the oven correctly.
- All packing materials have been removed from the inside of the oven.
- All power and gas connections are tight.

Power On

The pilot burner is electronically ignited. When the oven power switch is turned On the pilot will light.

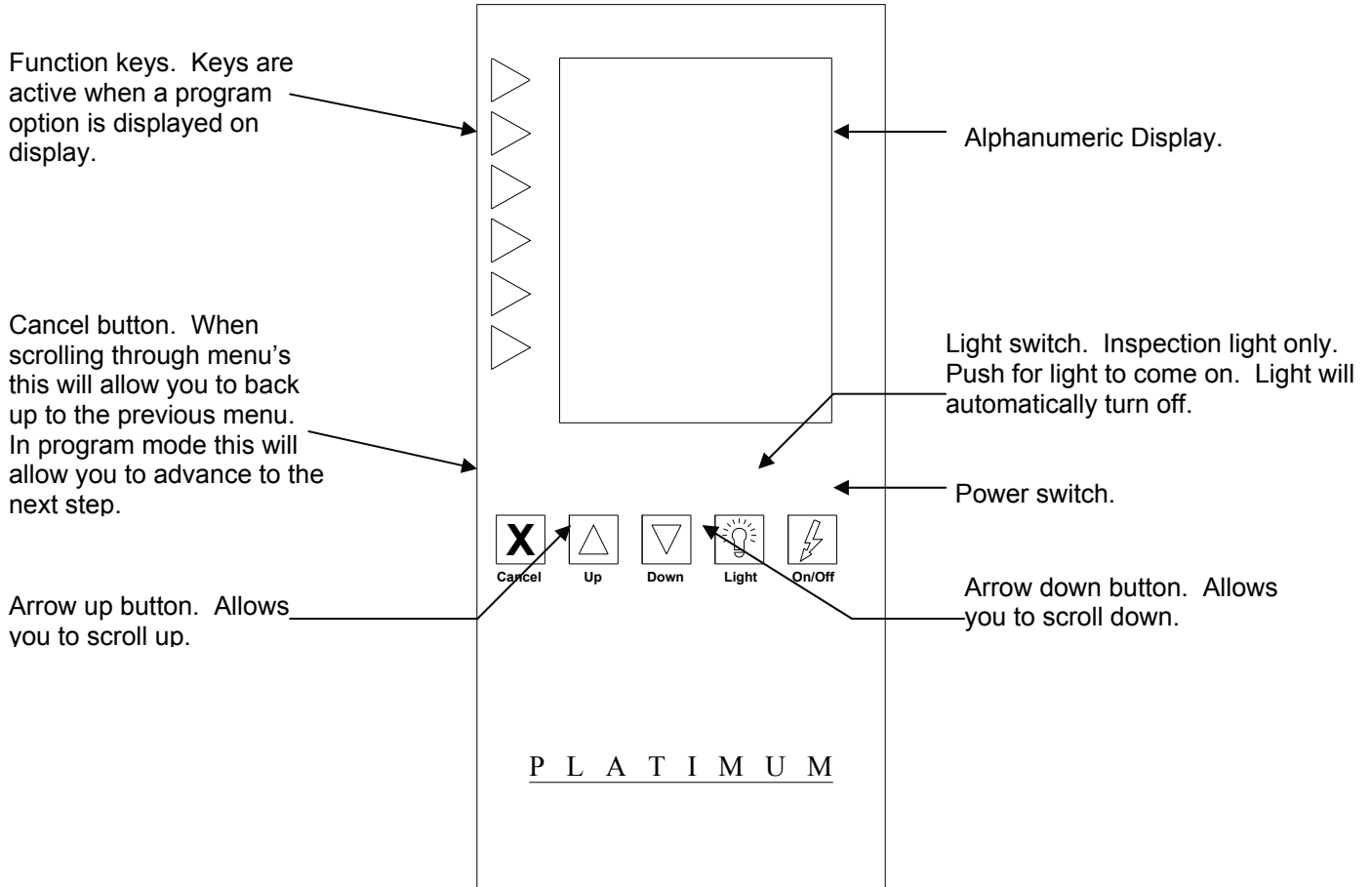
There is a lockout safety feature on the spark ignition module. If, during the initial start-up, the pilot does not light within 30 seconds the module will turn off all gas to the pilot burner. To reset the spark module, turn Off the power switch for 10 seconds then turn the switch back On. This may need to be repeated several times during the initial start-up until gas is present at the pilot burner.

NOTICE

During the first few hours of operation you may notice a small amount of smoke coming off the oven, and a faint odor from the smoke. This is normal for a new oven and will disappear after the first few hours of use.



Control Panel



OPERATION CONT'D

TYPICAL OPERATION SEQUENCE

ACTION	RESULT
Press the on switch.	Control panel comes on; display says " LANG, Run Oven, Time Date Program. "
Select " Run Oven ".	Display will show a list of product to choose.
Select Product button next to Icon desired.	Display says " Preheating to XXXF ".
<i>Beeper sounds briefly.</i>	Display says, " Ready ".
Select Product to start.	Display shows possible product selection for that temperature.
Select Product to start.	Display says " Select shelf ".
Press Product button next to desired shelf.	Display will show icon chosen and begin to count down.
<i>Beeper sounds continuously.</i>	Display shows " DONE " press button and remove product from that shelf.
Oven is ready for another product.	

Hints & Suggestions

Convection ovens constantly circulate air over and around the product. This strips away the thin layer of moisture and cool air from around the product allowing heat to penetrate more quickly.

Cooking times can be shortened and cooking temperatures can be reduced.

To convert standard deck oven recipes, reduce the temperature 50 degrees and the time by 25%.
Make minor adjustments as necessary.

The lower the oven temperature the more even the bake.

Always weigh your product. This will give you a more consistent size, color and quality.

Check the product near the end of the initial cooking cycle by turning on the oven light and looking through the oven door windows.

Do not open the oven doors during baking as this will change the baking characteristics of the oven and make it difficult to determine a final program.

If the product is overdone on the outside and underdone on the inside, reduce the baking temperature.

If the product is pulling away from the edge of the pan, the temperature is too high or the cooking time too long.

The convection is a mechanical piece of equipment. The same control settings will always give the same results. If the results vary, problems may be because of product preparation.

OPERATION CONT'D

Loading

When loading and unloading the oven, stage products and racks so the oven doors are opened for the least amount of time.

Be sure that racks are level within the oven.

Bent or warped pans can greatly affect the evenness of the cook or bake.

If using baker's parchment, be sure the parchment does not blow over the product. The will create an uneven bake.

Load each shelf evenly. Spaces should be maintained equally between the pan and oven walls, front and back.

Do not overload pan's this will create an uneven bake.

For best baking results, load the oven from the center out during random loading.

CAUTION

ALWAYS KEEP THE AREA NEAR THE APPLIANCE FREE FROM COMBUSTIBLE MATERIALS.



CAUTION

KEEP FLOOR IN FRONT OF EQUIPMENT CLEAN AND DRY. IF SPILLS OCCUR, CLEAN IMMEDIATELY, TO AVOID THE DANGER OF SLIPS OR FALLS.



MAINTENANCE & CLEANING

WARNING

KEEP WATER AND SOLUTIONS OUT OF CONTROLS. NEVER SPRAY OR HOSE CONTROL CONSOLE.

**CAUTION**

MOST CLEANERS ARE HARMFUL TO THE SKIN, EYES, MUCOUS MEMBRANES AND CLOTHING. PRECAUTIONS SHOULD BE TAKEN TO WEAR RUBBER GLOVES, GOGGLES OR FACE SHIELD AND PROTECTIVE CLOTHING. CAREFULLY READ THE WARNING AND FOLLOW THE DIRECTIONS ON THE LABEL OF THE CLEANER TO BE USED.

**NOTICE**

Never leave a chlorine sanitizer in contact with stainless steel surfaces longer than 10 minutes. Longer contact can cause corrosion.

**Cleaning**

- Always start with a cold oven.
- The stainless exterior can easily be cleaned using Lang Mfg. Prime Shine (72804-41) oven cleaner.
- Always follow the cleaner manufacturer's instructions when using any cleaner.
- Care should be taken to prevent caustic cleaning compounds from coming in contact with the blower wheel.
- The oven racks, rack slides, and interior may be cleaned using Lang Mfg. Foam Deluxe (72804-36) oven cleaner.
- Discoloration or heat tint may be removed using Lang Mfg. Carbon Release (72804-32) oven cleaner.
- Always apply these cleaners when the oven is cold and rub in the direction of the metal's grain.

TROUBLESHOOTING

Symptoms

What follows is a chart of Symptoms and Possible Causes to aid in diagnosing faults with the oven.

Refer to the Symptoms column to locate the type of failure then to the Possible Cause for the items to be checked.

To test for a possible causes refer to the TEST section and locate the Possible Cause then refer to test to identify test procedures.

SYMPTOM	POSSIBLE CAUSE
Display will not come on.	<ul style="list-style-type: none">• No power to cord outlet• Oven unplugged from outlet• Failed power cord or plug• Failed power switch• Failed pilot ignition• Contrast needs to be adjusted• Failed display board
Oven will not heat	<ul style="list-style-type: none">• No Product selected• Failed Pilot ignition• Failed Circuit Board• Failed Probe• Failed Module• Failed Centrifugal switch in Motor• Failed Motor• Failed Over-temperature Thermostat• Failed Valve
Motor will not run	<ul style="list-style-type: none">• No Product selected• Failed Pilot ignition• Failed Motor• Failed Motor Contactor• Failed Circuit Board.
Product burning	<ul style="list-style-type: none">• Product is cooked too long• Failed circuit board• Failed probe
Product under done	<ul style="list-style-type: none">• Product is not cooking long enough• Failed circuit board• Failed probe

TROUBLESHOOTING CONT'D

NOTICE

Service on this, or any other, LANG appliance must be performed by qualified personnel only. Consult your authorized service station directory or call the factory at 1-800-224-LANG (5264), or WWW.LANGWORLD.COM For the service station nearest you.



WARNING

BOTH HIGH AND LOW VOLTAGES ARE PRESENT INSIDE THIS APPLIANCE WHEN THE UNIT IS PLUGGED/WIRED INTO A LIVE RECEPTACLE. BEFORE REPLACING ANY PARTS, DISCONNECT THE UNIT FROM THE ELECTRIC POWER SUPPLY.



TESTS

If an item on the list is followed by an asterisk (*), the work should be done by a factory authorized service representative.

Possible Cause	TEST
Product is cooked too long	<ul style="list-style-type: none">• No test available, operational condition
Failed Probe	<ul style="list-style-type: none">• Check probe for proper resistance*
Failed Circuit Board	<ul style="list-style-type: none">• Confirm that board is getting correct voltage*• Confirm that board is putting out correct voltage*
Failed Valve	<ul style="list-style-type: none">• Remove the wires and check for continuity across the coil*
Failed Centrifugal switch in Motor	<ul style="list-style-type: none">• Remove the wires and check for continuity across them while motor is turning*
Failed Motor contactor	<ul style="list-style-type: none">• Remove the wires from the contactor coil and check for continuity across the contactor coil connection*• Ensure the contactor moveable points move freely up and down*
Failed Motor	<ul style="list-style-type: none">• Confirm that motor is getting correct voltage*
Failed or disconnected safety thermostat	<ul style="list-style-type: none">• Check across the thermostat connectors for continuity*
Failed Spark Module	<ul style="list-style-type: none">• Confirm that Spark Module is getting proper voltage*

CAUTION

USE OF ANY REPLACEMENT PARTS OTHER THAN THOSE SUPPLIED BY LANG OR THEIR AUTHORIZED DISTRIBUTORS CAN CAUSE BODILY INJURY TO THE OPERATOR AND DAMAGE TO THE EQUIPMENT AND WILL VOID ALL WARRANTIES.



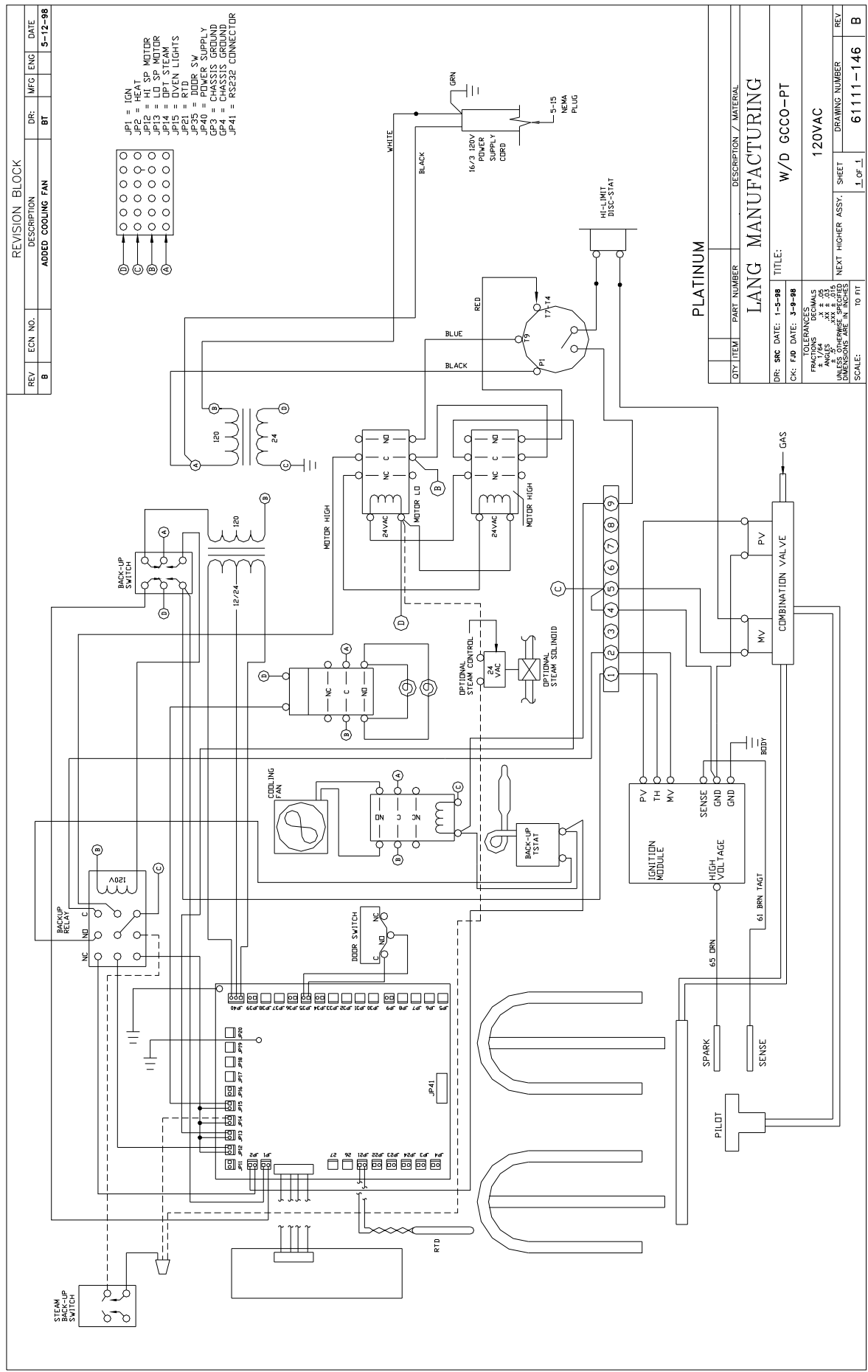
PARTS LIST

January 15, 2009

GCCO-PT

DESCRIPTION	PART NO.
Motor 1/3 HP 115 Volt 2 Speed	30200-35
Switch Micro Convection Oven Door	30301-02
Switch Toggle On-Off	30303-06
Switch Toggle Spring Return	30303-16
Thermostat Safety 490°F Open	30401-09
Thermostat 450°F Oven	30402-27
Terminal Block 24 Position Quick Disconnect	30503-01
Relay 24 VAC	30600-04
Contactors 2 Pole 24 VAC	30701-02
Contactors 2 Pole 30 Amp 24 VAC	30701-05
Power Cord with Molded Plug	31107-02
Cable Ribbon Assembly	31110-13
Transformer 115/24-12 VAC	31400-27
Lamp Socket	31602-04
Lamp Incandescent 250 Volt Clear	31603-09
Oven Lamp Lens (Watch Glass)	31604-01
Oven Lamp Lens Gasket	31604-02
Circuit Board Display	40102-25
Circuit Board Microprocessor	40102-26
Probe Pilot Flame Sensor	41100-07
Probe Temperature Sensor	41100-08
Oven Rack	50200-21
Oven Rack Slide	50200-59
Turnbuckle Assembly	50312-02
Door Left Hand	51100-45
Door Right Hand	51100-46
Panel Label, Platinum	60301-119
Valve Manual Main Water Supply (Steam Units)	70400-02
Valve Manual Water Supply (Steam Units)	70402-08
Valve Solenoid 24/60V Water Supply (Steam Units)	70403-01
Regulator Water Supply (Steam Units)	70404-01
Handle Assembly, Single Handle Oven	70603-15
Knob Thermostat 450°F Oven	70701-17
Window Assembly, Oven Door	71301-04
Blower Wheel	71500-05
Blower Wheel (Steam Units)	51100-57
Orifice Water/Steam #60 DRL (Steam Units)	80405-01
Burner "U" Tube Steel	GCCO-257-W1
Pilot Burner Assembly	80201-14
Pilot Tube	60102-1381
Module Spark Igniter NG & LP	80300-08
Orifice Main Burner .0890 #43 DRL NG	80400-13
Orifice Main Burner .0595 #53 DRL LP	80400-14
Orifice Pilot Burner .010 DRL LP	80401-05
Orifice Pilot Burner .018 DRL NG	80401-10
Valve Combination Gas 24 VAC NG	80505-10
Valve Combination Gas Conversion Kit NG to LP (Includes all orifices)	60101-633
Valve Combination Gas Conversion Kit LP to NG (Includes all orifices)	60101-632
Wiring Harness, Motor	GCCO-608
Wiring Harness, 120 Volt	GCCO-609
Wiring Harness, 24 Volt	GCCO-610

WIRING DIAGRAM



REVISION BLOCK			
REV	EON NO.	DR:	MFG ENG DATE
B		BT	5-12-98

DESCRIPTION	
ADDED COOLING FAN	

QTY	ITEM	PART NUMBER	DESCRIPTION / MATERIAL
PLATINUM			
LANG MANUFACTURING			
TITLE: W/D GCCO-PT			
DR: SRC DATE: 1-5-98			
CK: EOP DATE: 3-9-98			
FOR PARTS DEPARTMENT			
FRACIONS: DECIMALS			
1/2" = 1/2"			
1/4" = 1/4"			
1/8" = 1/8"			
UNLESS OTHERWISE NOTED			
DIMENSIONS ARE IN INCHES			
SCALE:	TO FIT	SHEET	DRAWING NUMBER
		1 OF 1	61111-146
			REV B

