



Electric Cruise Line Single Broiler

w/ Cabinet Base CLB36-1-440V

Installation and Operation Instructions

2M-W1256 REV B (10-22)



CLB36-1-440V



LIMITED EQUIPMENT WARRANTY

Lang Manufacturing warrants to the original purchaser of new Lang products to be free from defects in material or workmanship, under normal and proper use and maintenance service as specified by Lang and upon proper installation and start-up in accordance with the instructions supplied with each Lang unit. Lang's obligation under this warranty is limited to a period of one [1] year from the date of original installation, or eighteen [18] months from original invoice date, whichever occurs first. Defects that occur as a result of normal use, within the time period and limitations defined in this warranty, will at Lang' discretion have the parts replaced or repaired by Lang or a Lang-authorized service agency.

THIS WARRANTY IS SUBJECT TO ALL LISTED CONDITIONS

Repairs performed under this warranty are to be performed by a Lang authorized service agency. Lang will not be responsible for charges incurred or service performed by non-authorized repair agencies. In all cases, the nearest Lang-authorized service agency must be used. Lang will be responsible for normal labor charges incurred in the repair or replacement of a warrantied product within 50 miles (80.5 km) of an authorized service agency. Time and expense charges for anything beyond that distance will be the responsibility of the owner. All labor will need to be performed during regular service hours. Any overtime premium will be charged to the owner. For all shipments outside the U.S.A. and Canada, please see the International Warranty for specific details. It is the responsibility of the owner to inspect and report any shipping damage claims, hidden or otherwise, promptly following delivery. No mileage or travel charges will be honored on any equipment that is deemed portable. In general, equipment with a cord and plug weighing less than 50 lb. (22.7 kg) is considered portable and should be taken or shipped to the closest authorized service agency, transportation prepaid.

CONTACT

Should you require any assistance regarding the operation or maintenance of any Lang Manufacturing; phone or email our service department. In all correspondence provide the model number and serial number of the unit needing service; include the voltage or gas type.

Normal Business Hours: 8:00 a.m. to 4:30 p.m. Central Telephone: 800-264-7827 Tech Service Option 2

Email: TechService@partstown.com

www.LangWorld.com

PRODUCTS	PARTS	LABOR	
Lang Chef Series™	2 4005	2 40000	
convection ovens	2 years	2 years	
Lang Strato Series™	2 4005	2 years	
convection ovens	2 years	2 years	
Lang convection oven doors	lifetime	2 years	
(excluding hardware)	meume	2 years	
Lang griddles and charbroilers	2 years	2 years	
Chrome griddle surfaces			
[against peeling]	5 years		
Cast iron grates, burners	100 days		
and burner shields	180 days		
Original Lang parts sold to repair	00 dave		
Lang equipment 90 days			

WARRANTY EXCLUSIONS

THE FOLLOWING WILL NOT BE COVERED UNDER WARRANTY.

Lang's sole obligation under this warranty is limited to either repair or replacement parts, subject to the additional limitations detailed below. This warranty neither assumes nor authorizes any person to assume obligations other than those expressly covered by this warranty.

- Any product which has not been used, maintained, or installed in accordance with the directions published in the appropriate installation sheet and/or owner's manual, including incorrect gas or electrical connection. Lang is not liable for any unit which has been mishandled, abused, misapplied, subjected to harsh chemicals, modified by unauthorized personnel, damaged by flood, fire, or other acts of nature [or God], or which have an altered or missing serial
- Installation, labor, and job checkouts, calibration of heat controls, air and gas burner/bypass/pilot adjustments, gas or electrical system checks, voltage and phase conversions, cleaning of equipment, or seasoning of griddle surface.
- Replacement of fuses or resetting of circuit breakers, safety controls, or reset buttons.
- Replacement of broken or damaged glass components, quartz heating elements, and light bulbs.
- Labor charges for all removable and consumable parts in gas charbroilers and hotplates, including but not limited to burners, grates, and radiants.
- Any labor charges incurred by delays, waiting time, or operating restrictions that hinder a service technician's ability to perform service.
- Replacement of parts that fail or are damaged due to normal wear or labor for replacement of parts that can be replaced during a daily cleaning routine, such as but not limited to silicone belts, PTFE nonstick sheets, control labels, knobs, bulbs, fuses, quartz heating elements, baskets, racks, and grease drawers.
- Any economic loss of business or profits.
- Non-OEM parts. Use of non-OEM parts without Lang's approval will void the warranty.
- Components that should be replaced when damaged or worn, but have been field-repaired instead [e.g. field-welded fry pots]
- Units exceeding one [1] year from original installation date, or more than eighteen [18] months from original invoice date, whichever comes first.

ADDITIONAL WARRANTIES

 Specific/chain-specific equipment may have additional and/or extended warranties.

The foregoing warranty is in lieu of any, and all other warranties expressed or implied and constitutes the entire warranty.

TABLE OF CONTENTS

	CHAPTER	PAGE	Ξ
1.	TABLE OF CONTENTS	3	
2.	READ FIRST	4	
3.	UNPACKING	6	
4.	INSTALLATION	7	
5.	INITIAL START-UP	8	
6.	OPERATION	8	
7.	CLEANING	9	
8.	TROUBLESHOOTING	10	0
9.	PARTS LISTS	1	1
10.	EXPLODED VIEW	12	2
11.	WIRING DIAGRAM	1	7

IMPORTANT READ FIRST IMPORTANT

CAUTION: THE BROILER WEIGHS 370 LBS. (167.83 kg). 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 BROILER WILL BE LOCATED MUST BE DESIGNED TO SUPPORT THE WEIGHT OF THE

BROILER (370 LBS.).

CAUTION: SHIPPING STRAPS ARE UNDER TENSION AND CAN

SNAP BACK WHEN CUT.

DANGER: THIS APPLIANCE MUST BE GROUNDED AT THE

TERMINAL PROVIDED. FAILURE TO GROUND THE APPLIANCE COULD RESULT IN ELECTROCUTION

AND DEATH.

WARNING: INSTALLATION OF THE UNIT MUST BE DONE BY

PERSONNEL QUALIFIED TO WORK WITH

ELECTRICITY. 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 behind the access cover to

the right of the unit. The broiler voltage, wattage, serial number, wire size, 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.

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.



















IMPORTANT READ FIRST IMPORTANT

WARNING: KEEP WATER AND SOLUTIONS OUT OF CONTROLS.

NEVER SPRAY OR HOSE CONTROL CONSOLE,

ELECTRICAL CONNECTIONS, ETC.

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: 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 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.

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.











UNPACKING

3.1 Receiving the Broiler

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.

3.2 Location

Prior to un-crating, move the broiler as near 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.

3.3 Un-crating

The broiler is packaged on a pallet, wrapped in plastic to protect from moisture and surrounded by a wooden frame. Remove the wood crating carefully. Improper use of tools can result in damage to the equipment. Remove and discard plastic wrap. Remove and discard desiccant bags placed inside broiler cavity.

The broiler rack frame and rack are secured for shipping purposes and for safety, and should remain secured until unit is at its final location.

Legs, where applicable, are packed inside broiler cavity or cabinet base and should remain there until unit is at the final installation location.

The unit can be safely lifted from bottom with forklift or straps. Use extreme care and follow proper safety procedure regardless of method used and be aware of gravity center, especially with banks of multiple units.

CAUTION: THE BROILER WEIGHS 370 LBS. (167.83 kg). 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

BROILER WILL BE LOCATED MUST BE DESIGNED TO SUPPORT THE WEIGHT OF THE BROILER (370 LBS.).

CAUTION: SHIPPING STRAPS ARE UNDER TENSION AND CAN

SNAP BACK WHEN CUT.

Remove broiler from skid and place in intended location.







INSTALLATION

DANGER: THIS APPLIANCE MUST BE GROUNDED AT THE

TERMINAL PROVIDED. FAILURE TO GROUND THE APPLIANCE COULD RESULT IN ELECTROCUTION AND

DEATH.

WARNING: INSTALLATION OF THE UNIT MUST BE DONE BY

PERSONNEL QUALIFIED TO WORK WITH ELECTRICITY. 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 behind the access cover to the

right of the unit. The range voltage, wattage, serial number, wire size, 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.

4.1 Electrical Connection

Electrical connection must be made behind the control compartment in the cabinet base. 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).

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

4.2 Broiler Voltage

The Lang Model CLB36-1 operates on 400 or 440 Volts, depending on what voltage the unit is designed to handle. See nameplate for unit's voltage.









INITIAL START UP

5.1 PRE-POWER ON

Initial Start-up

Before the initial use of the broiler, the unit must be wiped down thoroughly with a dry rag, to remove any oils used in manufacturing. Also the unit must be thoroughly allowed to dry itself out. This is done be setting the thermostat to 350°. Allow the range oven to heat until all vapor and condensation has been eliminated. For best results allow the oven to thoroughly dry out. Allow 8 to 12 hours for this process. Note: There may be a small amount of smoke from the unit for the first couple of hours of use, this is normal.

OPERATION

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.





6.1 Broiler Controls

The controls are located on the right side of the unit. There are two switches. One on top and one on bottom. The top one controls the front half of the broiler, while the bottom one controls the rear half. There are three positions on each switch: Low, Off, & High.

The broiler rack is adjustable. There are three rack positions available. To set the position, put the product on the rack, push the lever down and forward into one of the positions.

CLEANING

7.1 After each Meal Cleaning

WARNING: KEEP WATER AND SOLUTIONS OUT OF CONTROLS.

NEVER SPRAY OR HOSE CONTROL CONSOLE,

ELECTRICAL CONNECTIONS, ETC.

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.

Empty crumb tray daily or when 1/3 full. It is easily removed for washing.

Clean exterior of the broiler with hot water and a mild detergent to maintain a gleaming appearance.

7.2 Daily Cleaning

The broiler should be thoroughly cleaned at least once a week in addition to the normal daily cleaning to insure against the accumulation of foreign material. Keep the inside of the broiler and metal deck clean.





TROUBLESHOOTING

9.1 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 cause, refer to the TEST section and locate the Possible Cause then refer to test to identify test procedures.

SYMPTOM	POSSIBLE CAUSE
Broiler will not heat	Failed elementFailed 2 heat switch
Product burning	Product is cooked too long

9.2 **TESTS**

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 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.



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	No test available, operational condition
Failed 2 heat switch	Check poles on switch for continuity
Failed element	Remove the wires and check for continuity across the element

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.

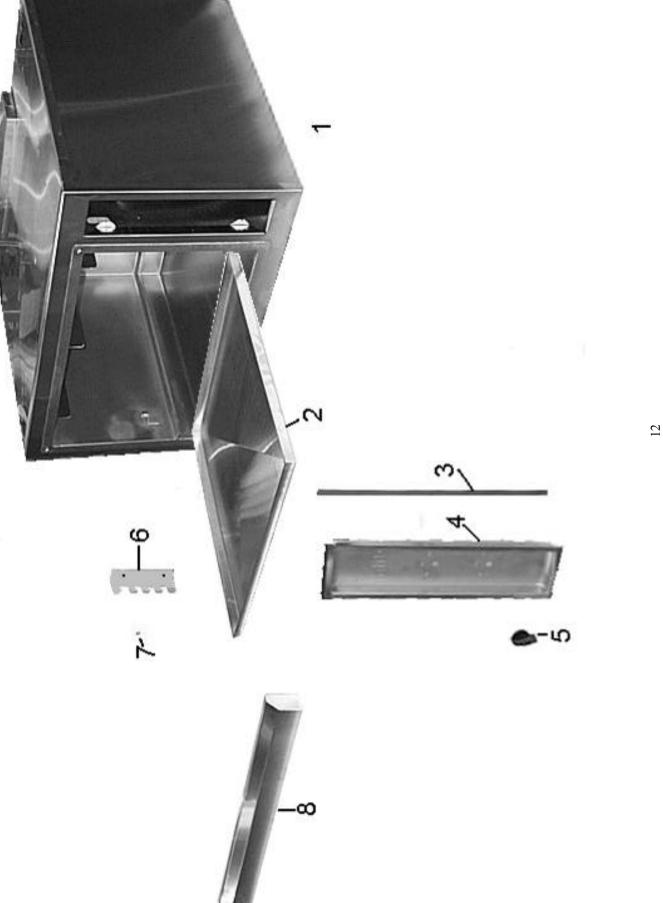


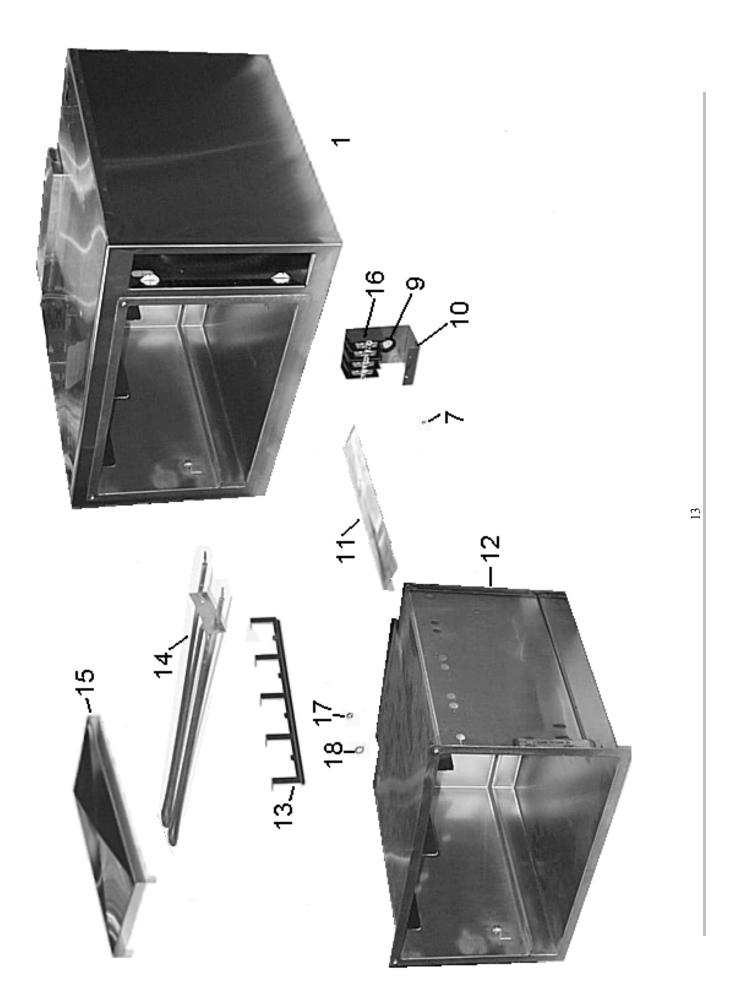
PARTS LIST

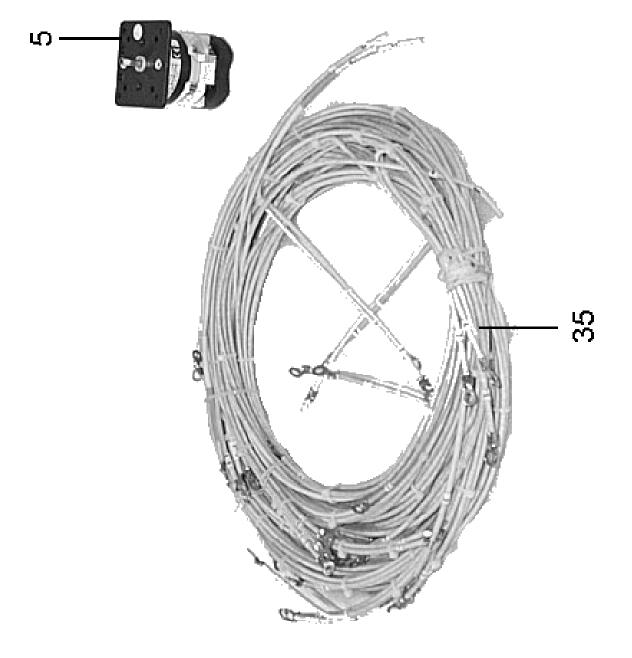
CLB36-1-400V & CLB36-1-440V

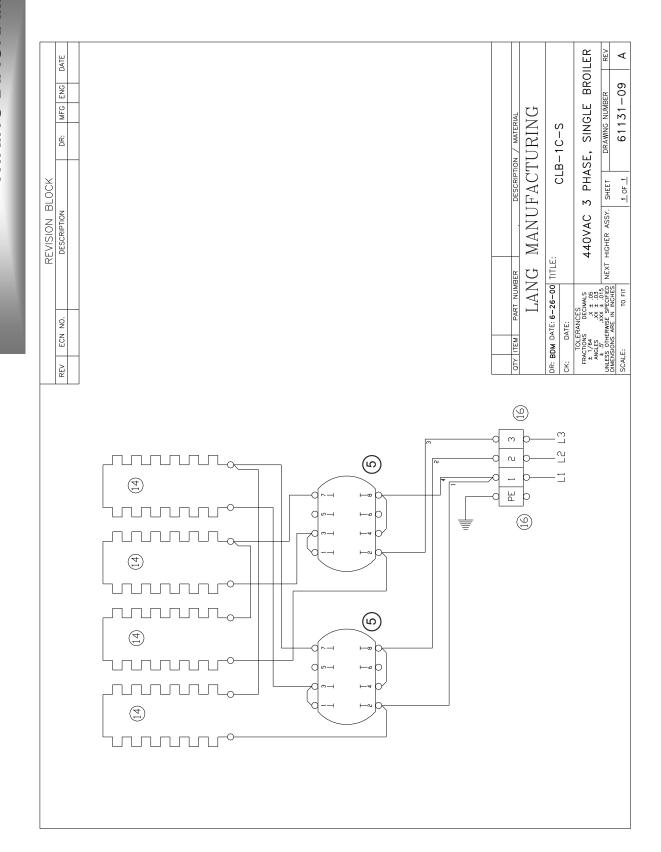
Fig No.	Part No.	Qty	Description
1	NLA	1	Body
2	J9-CLB-226	1	PAN - BROILER
3	1M-72602-04	44	GSKTTPEHITMP1/2X1/16X10YD
4	J9-CLB-225	1	SWITCH PANEL - CLB
5	2R-30304-W32-1	2	Heat Switch to 4/17/16 ¹
5	2E-30304-36	2	Heat Switch from 4/18/16
6	J9-CLB-319	1	RACK ADJUSTMENT - BROILER
7	2C-20111-09	46	SCRW HXHD CAP 10-32X1/2
8	J9-CLB-212	1	FRONT HOOD - BROILER
9	2K-70801-02	1	SNAP BUSH 1 3/8 SB1375-16
10	J9-CLB-224	1	TERMINAL BLOCK MOUNT -
11	J9-CLB-218	1	HEAT SHIELD - BROILER
12	J9-CLB-001	1	BROILER CAN ASSY
13	OB-CLB-309	3	OBS ELEMENT HOLDER -
14	2N-11100-13	4	ELEMENT BROILER CLS 400V
14	2N-11100-11	4	ELEMENT BROILER CLS 440V
15	J9-CLB-427	2	ELEMENT HEAT SHIELD -
16	2E-30500-11	2	TRM BLOCK 2 PLE LG 175AMP
17	2C-20303-08	32	NUT HX SS 10-24
18	2C-20203-06	32	WASHER S/S 5/16 SAE FLAT
19	2C-20111-25	6	SCRW HXHD CAP 1/4-20X1.25
20	J9-CLB-310	6	BEARING WASHER - BROILER
21	2P-70202-03	6	BEARING BROILER/FAB ONLY
22	2P-CLB-401	6	BEARING BRACKET SLEVE -
23	2C-20301-29	4	NUT HEX ACORN 1/4-20 S/S
24	J9-CLB-002	1	CARRIAGE ASSY
25	J9-CLB-420	1	HEAT SHIELD ASSY - w/ Clips
26	J9-CLB-425	1	HEAT SHIELD #2 - BROILER
27	2B-50200-80	1	RACK HEAVY DUTY CLB
28	J9-CLB-219	1	REAR FIREWALL SINGLE -
29	J9-CLB-320	1	CAN WIRE SUPPORT
30	J9-CLB-330	1	MAIN STACK ASSY SINGLE
31	J9-CLB-209	1	BACK SINGLE - BROILER
32	J9-CLB-211	2	VENT TRIM - BROILER
33	J9-CLB-244	1	PANEL VENT ASSY - BROILER
34	J9-CLB-243	1	PANEL VENT TOP - BROILER
35	2E-CLB-501	1	WIRE HARNESS SINGLE
37	J9-CLB-625	1	C. B. PANEL - BROILER

¹Requires 1 replacement kit [PS-30304-36] to upgrade the entire unit to the new style switch.









LANG MANUFACTURING

265 Hobson Street, Smithville, TN 37166 U.S.A. (800) 264-7827 www.langworld.com