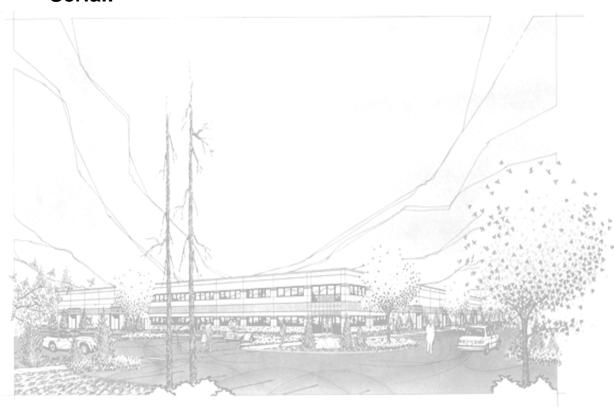




# Installation, Operation, Maintenance, & Troubleshooting Model: CLR36R-GB-S Electric Cruise Line Grooved Griddle Range with an Overhead Switchbox

Serial:



Lang Manufacturing Company

6500 Merrill Creek Parkway Phone: 425-349-2400 Fax: 425-349-2733 WWW.LANGWORLD.COM Everett, WA 98203

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

#### 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.

**NOTICE:** THIS EQUIPMENT IS APPROVED FOR INSTALLATION ONLY ON VESSELS GREATER THAN 65 FEET IN LENGTH, IN ACCORDANCE WITH USCG REGULATIONS IN TITLE 46 CFR 110-113. ANY WIRING USED IN THE INSTALLATION OF THIS APPLAINCE MUST BE STRANDED COPPER.

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#### IMPORTANT READ FIRST IMPORTANT

**CAUTION:** THE RANGE WEIGHS 600 LBS. (272.16 KILOGRAMS).

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 RANGE WILL BE LOCATED MUST BE DESIGNED TO SUPPORT THE WEIGHT OF THE

**RANGE (600 LBS.).** 

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 oven door. 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.

**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 1-800-224-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.

**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 Range

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 range 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

Uncrate range as close to installation location as possible. The range is packaged on a pallet, wrapped in plastic to protect the unit 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 the plastic wrap. Desiccant bags on top of the range should also be discarded. Protective paper on top of the range may be left until the installation is complete.

The range is raised on blocks to enable ease of handling when removing from pallet with forklift or straps. Use extreme care regardless of method used and be aware of gravity center, especially with banks of multiple units.

#### PLEASE NOTE:

Legs, manuals, racks, rack slides, griddle cleaning tools, fryer smother covers and remote overhead switch boxes, where applicable, are packed inside the oven cavity and should remain there until the unit is at the final installation location.

Desiccant bags have been placed inside electrical cavity and must be removed before operation.

CAUTION: RANGE WEIGHS 600 LBS (272.16 kilograms). 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

RANGE WILL BE LOCATED MUST BE DESIGNED TO SUPPORT THE WEIGHT OF THE RANGE (600 LBS.).





#### 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 oven door. 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 with an Overhead Switch Box

Electrical connection must be accomplished with 3 separate connections on remote switch box, and 2 connections on the range. Connection #1 is for incoming power. Connection #2 is for wires connecting switch box to range. Connection #3 is for probe wires only. The probe wires must be connected from the range to the switch box with a shielded cable. Grounded at one end only, running in a separate conduit. Connections for the range are made on the terminal block located behind an access panel to the right of the oven door. Recommend conduit be hooked into the bottom front, below the terminal block, or at the right back of the unit behind the terminal block.

#### 4.2 Overhead Switch Box

The overhead switch box can be mounted anywhere above the range. The electrical service connection can by made anywhere on the body of the switch box.

#### 4.3 Range Voltage

The Lang Model CLR36R-GB-S can be operated on 440 Volts.









#### **INITIAL START UP**

#### 5.1 PRE-POWER ON

#### **Initial Start-up**

Before the initial use of the range, the oven 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. Clean top plates thoroughly. Apply salad oil. Turn each plate thermostat to a low position and allow plate to heat for three hours.

#### NOTICE:

Somewhere along the rising temperature curve between 200° and 300° a moderate amount of smoke may issue from in and around the Range. The smoke may be repeated somewhere around 350°. Preservation oils and oil accumulated during manufacturing may be coming off as smoke in these temperature ranges. Do no be alarmed.



#### 5.2 Season the Grill

The cooking surface must be "seasoned" in order to reduce product sticking.

To season, heat the griddle to 250 degrees.

Once at 250 degrees, coat the cooking surface with a non-salted vegetable oil.

Allow the griddle to stand at 250 degrees until the cooking surface looks dry then coat it again.

Heat the griddle to 350 degrees and repeat the procedure.

The griddle may emit a small amount of smoke as the cooking surface passes the 350° point. Do not be alarmed as oils associated with the manufacturing process may cause smoke and will stop when the griddle reaches 350 degrees.

#### **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 Range Controls with a Overhead Switch Box

Turn the griddle thermostat dial to the desired temperature setting. The power switch, located on the control box on the right of the switch box, energizes the control circuits. When this switch is on, the "power" pilot lamp will be illuminated. This control is located to the left of the power switch, the left most knob is the left side of the griddle, and the right one is the right side of the griddle. The "heat" pilot lamp will illuminate indicating power is applied to the heating elements.

#### **6.2 Oven Controls**

The oven must be thoroughly preheated before satisfactory baking can be done. The oven will not bake uniformly if not sufficiently preheated. After preheating let the oven cycle 2 or 3 times to ensure complete heating of the entire oven cavity.

The "Roasting and Baking" oven is equipped with a removable rack. For baking pies, bread, or for roasting operations, the rack may be placed directly on the metal deck and the pans placed on the rack. For baking cakes or pastries the rack should be located in the lower position provided by the rack supports at the sides of the range and the pans placed on the rack in this lower position.

NOTE: Always place the pans symmetrically on the rack for best results. Keep the oven door closed as much as possible. Excessive door opening will cool the front section of the oven and products placed near the front are likely to bake slower. It is desirable to keep the front edge of the pans at least several inches back from the inside of the door (when closed). Do not permit air from a window or fan to blow into the oven; it will cause uneven heating.

#### **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.





#### 7.1 After each meal Cleaning

Empty the grease drawer often or whenever it is 3/4 full. Remove the grease drawer after each meal and wash the inside and outside of the drawer.

Keep the griddle surface clean. After each cooking load, scrape the griddle surface with the grooved griddle cleaning tool to remove any carbonized grease.

The griddle surface should be cleaned and re-seasoned. Use a griddle stone, griddle pad, or liquid cleaner. Rub with the grain of the metal, being careful not to scrape the splashguard.

Clean the exterior of the appliance with a hot water and chlorine solution to maintain a gleaming appearance.

Be sure to rinse thoroughly and coat the cooking surface with a thin film of oil to prevent rusting.

Re-season the griddle plate after each cleaning (refer to page 8).

#### 7.2 Daily

The range should be thoroughly cleaned at least once a day in addition to the normal after meal cleaning to insure against the accumulation of foreign material. Keep the inside of the oven and metal deck clean, particularly around door opening, door edges and at bottom of door opening so that the door may close tightly.

### **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
Indicator is not lit.	<ul><li>No power to unit</li><li>Failed switch</li><li>Failed pilot light</li></ul>
Range will not heat	<ul> <li>Failed element</li> <li>Switch is not ON</li> <li>Failed contactor</li> <li>Failed thermostat/circuit board</li> <li>Failed transformer</li> <li>Open in wiring between switch box and range</li> <li>Open in terminal block</li> </ul>
Product burning	<ul> <li>Product is cooked too long</li> <li>Failed thermostat/circuit board</li> <li>Failed contactor</li> </ul>
Product under done	<ul> <li>Failed temperature sensor</li> <li>Failed circuit board/thermostat</li> <li>Failed temperature selector</li> </ul>

#### TROUBLESHOOTING CONT'D

#### **9.2 TESTS**

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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.

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 thermostat	Check poles on thermostat for continuity
Failed element	Remove the wires and check for continuity across the element
Failed heat contactor	<ul> <li>Remove the wires from the contactor coil and check for continuity across the contactor coil connection</li> </ul>
	<ul> <li>Ensure the contactor moveable points move freely up and down</li> </ul>
	<ul> <li>Check for 24 volts at the contactor coil when the computer is running*</li> </ul>
Failed temperature sensor	Check resistance of sensor for accuracy
Failed pilot light	Check light for resistance
Failed transformer	Check coils on transformer for correct resistance

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## **PARTS LIST**

#### CLR36R-G-S

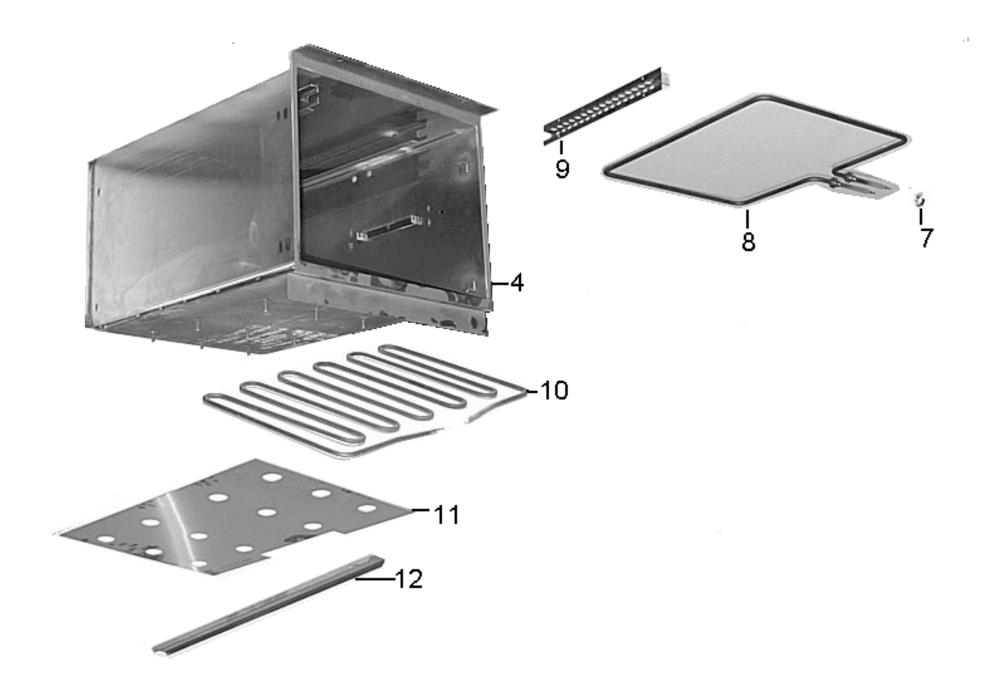
1         Body         CLR-003         1           2         Vent Back         CLR-529         1           3         Grease Bucket Assembly         CLR-500         1           4         Can Assembly         CLR-001         1           5         Heat Shield         CLR-002         1           6         Door Assembly         CLR-002         1           7         Stainless Steel Jam Nut, 5/8-18         20303-14         2           8         CLR Top Element, 440V, 1500W         11045-06         1           9         Probe Shield         CLR-424         1           10         CLR Bottom Element, 440V         11045-07         1           11         Element Cover         CLR-447         1           12         Element Channel         CLR-447         1           13         Spring Tube Cover         CLR-484-1         1           14         12 1/4" Stainless Steel Hex Head Cap Screw, 3/8-16         20104-53         1           15         Spring Piston         XLHCL-119         1           16         Hood Type Compression Spring         51002-01         1           17         Spring Tube Assembly         CLR-480         1      <	Item #	Description	Part Number	Qty
3         Grease Bucket Assembly         CLR-500         1           4         Can Assembly         CLR-001         1           5         Heat Shield         CLR-440         1           6         Door Assembly         CLR-002         1           7         Stainless Steel Jam Nut, 5/8-18         20303-14         2           8         CLR Top Element, 440V, 1500W         11045-06         1           9         Probe Shield         CLR-424         1           10         CLR Bottom Element, 440V         11045-07         1           11         Element Cover         CLR-447         1           12         Element Channel         CLR-444         3           13         Spring Tube Cover         CLR-484-1         1           14         12 1/4" Stainless Steel Hex Head Cap Screw, 3/8-16         20104-53         1           15         Spring Piston         XLHCL-119         1           16         Hood Type Compression Spring         51002-01         1           17         Spring Tube Assembly         CLR-480         1           18         Spring Tube Cap and Bearing Retainer         CLR-482         1           19         Door Spring         CLR-490 <td></td> <td></td> <td>CLR-003</td> <td>1</td>			CLR-003	1
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6         Door Assembly         CLR-002         1           7         Stainless Steel Jam Nut, 5/8-18         20303-14         2           8         CLR Top Element, 440V, 1500W         11045-06         1           9         Probe Shield         CLR-424         1           10         CLR Bottom Element, 440V         11045-07         1           11         Element Cover         CLR-447         1           12         Element Channel         CLR-444         3           13         Spring Tube Cover         CLR-484-1         1           14         12 1/4" Stainless Steel Hex Head Cap Screw, 3/8-16         20104-53         1           15         Spring Piston         XLHCL-119         1           16         Hood Type Compression Spring         51002-01         1           17         Spring Tube Assembly         CLR-480         1           18         Spring Tube Cap and Bearing Retainer         CLR-482         1           19         Door Spring         CLR-490         1           20         Door Lever and Shaft         CLR-490         1           21         6 1/2" Stainless Steel Hex Head Cap Screw, 1/4-20         20903-03         1           22         S	4	Can Assembly	CLR-001	1
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12         Element Channel         CLR-444         3           13         Spring Tube Cover         CLR-484-1         1           14         12 1/4" Stainless Steel Hex Head Cap Screw, 3/8-16         20104-53         1           15         Spring Piston         XLHCL-119         1           16         Hood Type Compression Spring         51002-01         1           17         Spring Tube Assembly         CLR-480         1           18         Spring Tube Cap and Bearing Retainer         CLR-482         1           19         Door Spring         CLR-480         1           20         Door Lever and Shaft         CLR-490         1           21         6 1/2" Stainless Steel Hex Head Cap Screw, 1/4-20         20903-03         1           22         Stainless Steel Washer, 1 OD X .638 ID X .125 Thick         20203-09         2           23         Flanged Bronze Bushing, 5/8 ID X 3/4 OD X 5/8 Long         70201-06         2           24         Blank Switch Panel         CLR-530         1           25         Oven Element Cover         CLR-273         1           26         Cover         CLR-272         1           27         Temperature Probe         41100-08         1	10	CLR Bottom Element, 440V	11045-07	1
13         Spring Tube Cover         CLR-484-1         1           14         12 1/4" Stainless Steel Hex Head Cap Screw, 3/8-16         20104-53         1           15         Spring Piston         XLHCL-119         1           16         Hood Type Compression Spring         51002-01         1           17         Spring Tube Assembly         CLR-480         1           18         Spring Tube Cap and Bearing Retainer         CLR-482         1           19         Door Spring         CLR-490         1           20         Door Lever and Shaft         CLR-460         1           21         6 1/2" Stainless Steel Hex Head Cap Screw, 1/4-20         20903-03         1           22         Stainless Steel Washer, 1 OD X .638 ID X .125 Thick         20203-09         2           23         Flanged Bronze Bushing, 5/8 ID X 3/4 OD X 5/8 Long         70201-06         2           24         Blank Switch Panel         CLR-530         1           25         Oven Element Cover         CLR-273         1           26         Cover         CLR-272         1           27         Temperature Probe         41100-08         1           28         1 3/8" Heyco Bushing         70801-02         1	11	Element Cover	CLR-447	1
14       12 1/4" Stainless Steel Hex Head Cap Screw, 3/8-16       20104-53       1         15       Spring Piston       XLHCL-119       1         16       Hood Type Compression Spring       51002-01       1         17       Spring Tube Assembly       CLR-480       1         18       Spring Tube Cap and Bearing Retainer       CLR-482       1         19       Door Spring       CLR-490       1         20       Door Lever and Shaft       CLR-460       1         21       6 1/2" Stainless Steel Hex Head Cap Screw, 1/4-20       20903-03       1         22       Stainless Steel Washer, 1 OD X .638 ID X .125 Thick       20203-09       2         23       Flanged Bronze Bushing, 5/8 ID X 3/4 OD X 5/8 Long       70201-06       2         24       Blank Switch Panel       CLR-530       1         25       Oven Element Cover       CLR-273       1         26       Cover       CLR-272       1         27       Temperature Probe       41100-08       1         28       1 3/8" Heyco Bushing       70801-02       1	12	Element Channel	CLR-444	3
15         Spring Piston         XLHCL-119         1           16         Hood Type Compression Spring         51002-01         1           17         Spring Tube Assembly         CLR-480         1           18         Spring Tube Cap and Bearing Retainer         CLR-482         1           19         Door Spring         CLR-490         1           20         Door Lever and Shaft         CLR-460         1           21         6 1/2" Stainless Steel Hex Head Cap Screw, 1/4-20         20903-03         1           22         Stainless Steel Washer, 1 OD X .638 ID X .125 Thick         20203-09         2           23         Flanged Bronze Bushing, 5/8 ID X 3/4 OD X 5/8 Long         70201-06         2           24         Blank Switch Panel         CLR-530         1           25         Oven Element Cover         CLR-273         1           26         Cover         CLR-272         1           27         Temperature Probe         41100-08         1           28         1 3/8" Heyco Bushing         70801-02         1	13	Spring Tube Cover	CLR-484-1	1
16         Hood Type Compression Spring         51002-01         1           17         Spring Tube Assembly         CLR-480         1           18         Spring Tube Cap and Bearing Retainer         CLR-482         1           19         Door Spring         CLR-490         1           20         Door Lever and Shaft         CLR-460         1           21         6 1/2" Stainless Steel Hex Head Cap Screw, 1/4-20         20903-03         1           22         Stainless Steel Washer, 1 OD X .638 ID X .125 Thick         20203-09         2           23         Flanged Bronze Bushing, 5/8 ID X 3/4 OD X 5/8 Long         70201-06         2           24         Blank Switch Panel         CLR-530         1           25         Oven Element Cover         CLR-273         1           26         Cover         CLR-272         1           27         Temperature Probe         41100-08         1           28         1 3/8" Heyco Bushing         70801-02         1	14	12 1/4" Stainless Steel Hex Head Cap Screw, 3/8-16	20104-53	1
17       Spring Tube Assembly       CLR-480       1         18       Spring Tube Cap and Bearing Retainer       CLR-482       1         19       Door Spring       CLR-490       1         20       Door Lever and Shaft       CLR-460       1         21       6 1/2" Stainless Steel Hex Head Cap Screw, 1/4-20       20903-03       1         22       Stainless Steel Washer, 1 OD X .638 ID X .125 Thick       20203-09       2         23       Flanged Bronze Bushing, 5/8 ID X 3/4 OD X 5/8 Long       70201-06       2         24       Blank Switch Panel       CLR-530       1         25       Oven Element Cover       CLR-273       1         26       Cover       CLR-272       1         27       Temperature Probe       41100-08       1         28       1 3/8" Heyco Bushing       70801-02       1	15	Spring Piston	XLHCL-119	1
18         Spring Tube Cap and Bearing Retainer         CLR-482         1           19         Door Spring         CLR-490         1           20         Door Lever and Shaft         CLR-460         1           21         6 1/2" Stainless Steel Hex Head Cap Screw, 1/4-20         20903-03         1           22         Stainless Steel Washer, 1 OD X .638 ID X .125 Thick         20203-09         2           23         Flanged Bronze Bushing, 5/8 ID X 3/4 OD X 5/8 Long         70201-06         2           24         Blank Switch Panel         CLR-530         1           25         Oven Element Cover         CLR-273         1           26         Cover         CLR-272         1           27         Temperature Probe         41100-08         1           28         1 3/8" Heyco Bushing         70801-02         1	16	Hood Type Compression Spring	51002-01	1
19       Door Spring       CLR-490       1         20       Door Lever and Shaft       CLR-460       1         21       6 1/2" Stainless Steel Hex Head Cap Screw, 1/4-20       20903-03       1         22       Stainless Steel Washer, 1 OD X .638 ID X .125 Thick       20203-09       2         23       Flanged Bronze Bushing, 5/8 ID X 3/4 OD X 5/8 Long       70201-06       2         24       Blank Switch Panel       CLR-530       1         25       Oven Element Cover       CLR-273       1         26       Cover       CLR-272       1         27       Temperature Probe       41100-08       1         28       1 3/8" Heyco Bushing       70801-02       1	17	Spring Tube Assembly	CLR-480	1
20       Door Lever and Shaft       CLR-460       1         21       6 1/2" Stainless Steel Hex Head Cap Screw, 1/4-20       20903-03       1         22       Stainless Steel Washer, 1 OD X .638 ID X .125 Thick       20203-09       2         23       Flanged Bronze Bushing, 5/8 ID X 3/4 OD X 5/8 Long       70201-06       2         24       Blank Switch Panel       CLR-530       1         25       Oven Element Cover       CLR-273       1         26       Cover       CLR-272       1         27       Temperature Probe       41100-08       1         28       1 3/8" Heyco Bushing       70801-02       1	18	Spring Tube Cap and Bearing Retainer	CLR-482	1
21       6 1/2" Stainless Steel Hex Head Cap Screw, 1/4-20       20903-03       1         22       Stainless Steel Washer, 1 OD X .638 ID X .125 Thick       20203-09       2         23       Flanged Bronze Bushing, 5/8 ID X 3/4 OD X 5/8 Long       70201-06       2         24       Blank Switch Panel       CLR-530       1         25       Oven Element Cover       CLR-273       1         26       Cover       CLR-272       1         27       Temperature Probe       41100-08       1         28       1 3/8" Heyco Bushing       70801-02       1	19	Door Spring	CLR-490	1
22       Stainless Steel Washer, 1 OD X .638 ID X .125 Thick       20203-09       2         23       Flanged Bronze Bushing, 5/8 ID X 3/4 OD X 5/8 Long       70201-06       2         24       Blank Switch Panel       CLR-530       1         25       Oven Element Cover       CLR-273       1         26       Cover       CLR-272       1         27       Temperature Probe       41100-08       1         28       1 3/8" Heyco Bushing       70801-02       1	20	Door Lever and Shaft	CLR-460	1
23       Flanged Bronze Bushing, 5/8 ID X 3/4 OD X 5/8 Long       70201-06       2         24       Blank Switch Panel       CLR-530       1         25       Oven Element Cover       CLR-273       1         26       Cover       CLR-272       1         27       Temperature Probe       41100-08       1         28       1 3/8" Heyco Bushing       70801-02       1	21	6 1/2" Stainless Steel Hex Head Cap Screw, 1/4-20	20903-03	1
24       Blank Switch Panel       CLR-530       1         25       Oven Element Cover       CLR-273       1         26       Cover       CLR-272       1         27       Temperature Probe       41100-08       1         28       1 3/8" Heyco Bushing       70801-02       1	22	Stainless Steel Washer, 1 OD X .638 ID X .125 Thick	20203-09	2
25       Oven Element Cover       CLR-273       1         26       Cover       CLR-272       1         27       Temperature Probe       41100-08       1         28       1 3/8" Heyco Bushing       70801-02       1	23	Flanged Bronze Bushing, 5/8 ID X 3/4 OD X 5/8 Long	70201-06	2
26       Cover       CLR-272       1         27       Temperature Probe       41100-08       1         28       1 3/8" Heyco Bushing       70801-02       1	24	Blank Switch Panel	CLR-530	1
27       Temperature Probe       41100-08       1         28       1 3/8" Heyco Bushing       70801-02       1	25	Oven Element Cover	CLR-273	1
28 1 3/8" Heyco Bushing 70801-02 1	26	Cover	CLR-272	1
	27	Temperature Probe	41100-08	1
29 Overhead Switch Box Assembly OSB-200 1	28	1 3/8" Heyco Bushing	70801-02	1
	29	Overhead Switch Box Assembly	OSB-200	1

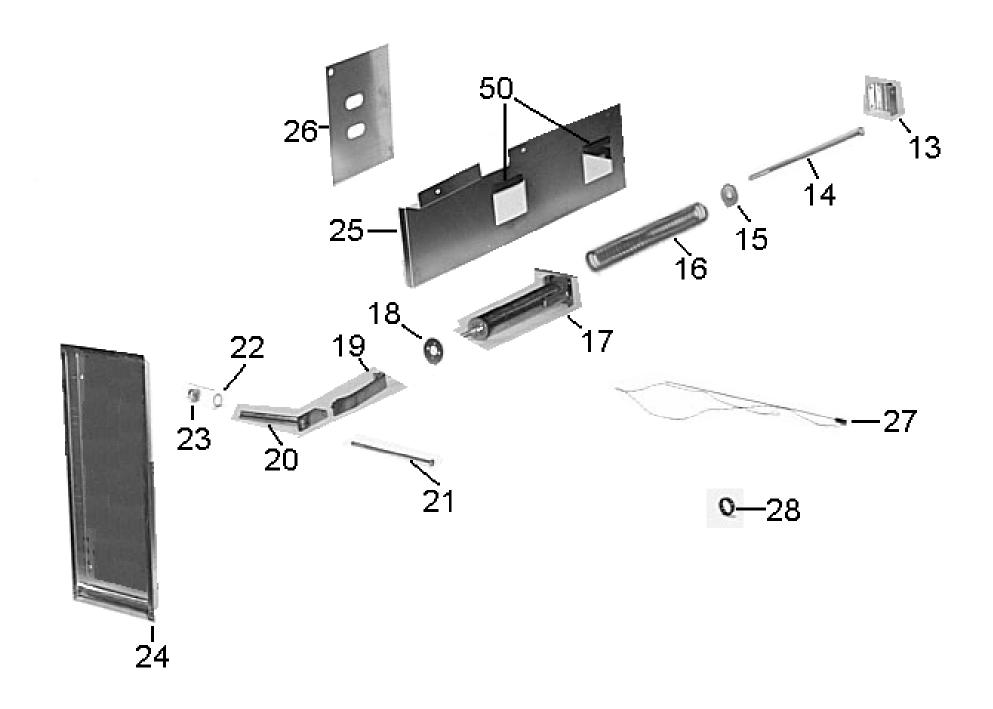
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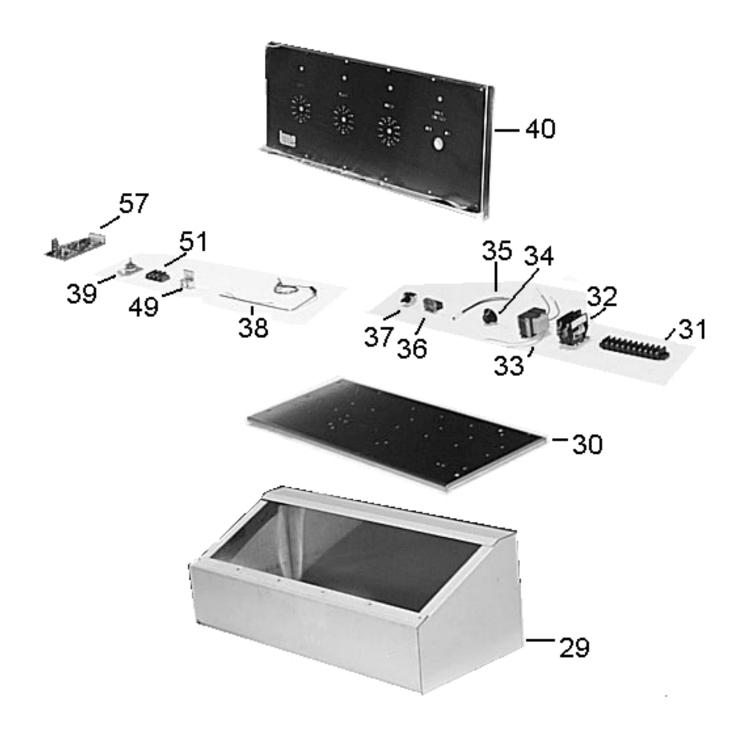
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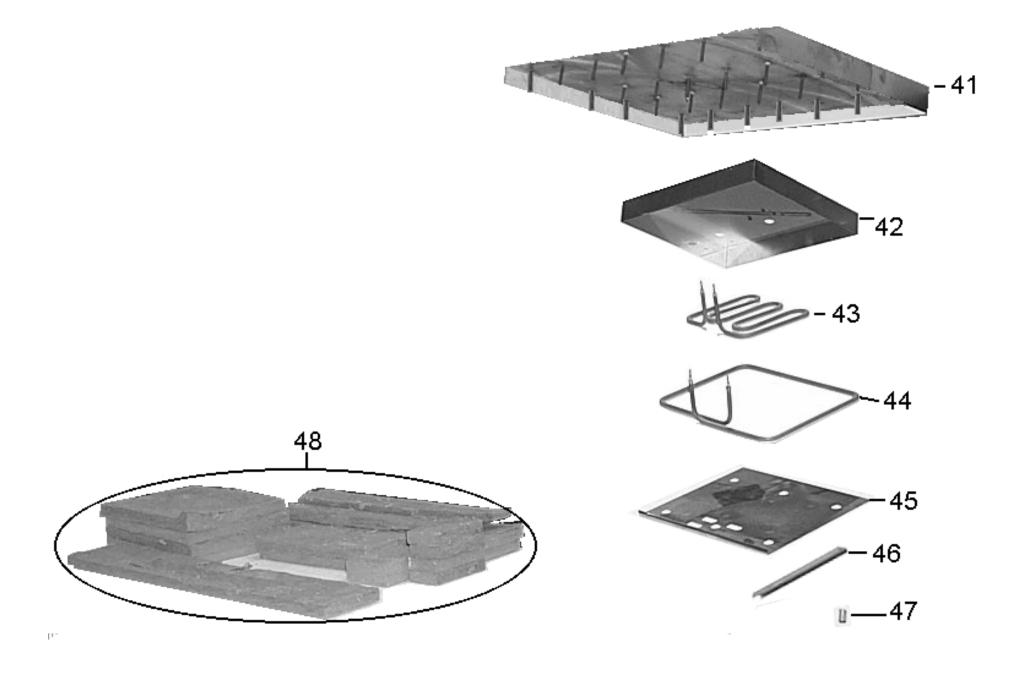
30	Component Mount	OSB-209	1
31	10 Pole Terminal Strip, 30A, 600V	30500-04	4
32	2 Pole Contactor, 30A, 24VAC	30701-04	1
33	Transformer, 480/24 VAC	31400-15	1
34	Black Knob	70701-28	5
35	Pilot Light	31601-07	1
36	Contact Block	30304-31	1
37	2 Position Rotary Switch	30304-30	1
38	Selectronic Probe	41100-17	2
39	3 Heat Rotary Switch, 240/480VAC, 15A	30304-06	4
40	Griddle Control Panel	OSB-235	1
41	Griddle Plate – specify top grooves location if desired	CLR-520	1
42	Element Pan	CLR-513	4
43	Inner Element, 440V, 1850W	11045-09	4
44	Outer Element, 440V, 1650W	11045-08	4
45	Element Plate	CLR-511	4
46	Element Plate Support	CLR-512	12
47	Element Plate Spacer	CLR-514	24
48	Insulation Kit	60106-45	1
49	2 Pole Terminal Strip, 30A, 300V	30500-01	2
50	Trimlock	CLR-542	2
51	Two Hole Grounding Lug	31200-08	1
52	Oven Harness	CLR-552	1
53	Jumper	CLR-553	4
54	Griddle Element Harness for OSB unit	CLR-554	2
55	Griddle Oven Control Harness for OSB	CLR-556	1
56	Griddle Power Harness for OSB	CLR-558	1
57	Temperature Control Circuit Board	40101-18	3

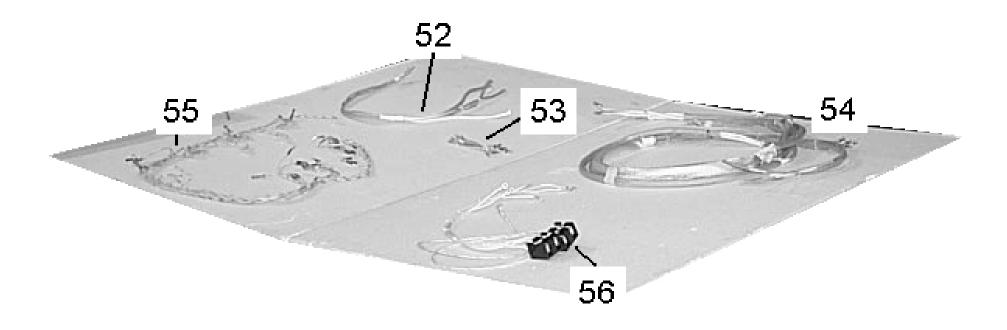




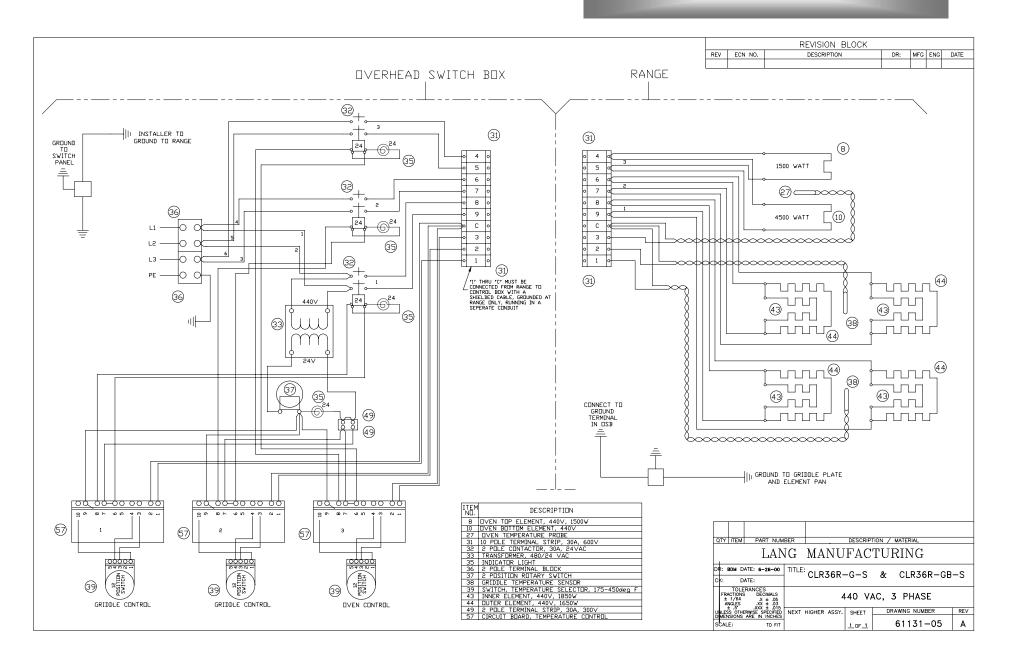








#### **WIRING DIAGRAM**



## Lang Manufacturing Limited Warranty to Cruise Line Purchasers

Lang Manufacturing Equipment ("Lang Equipment") has been skillfully manufactured, carefully inspected and packaged to meet rigid standards of excellence. Lang warrants its Equipment to be free from defects in material and material-related workmanship for (13) thirteen consecutive months from the date of initial shipboard installation or (18) eighteen consecutive months from date of initial factory shipment, which ever comes first. The aforementioned warranty statement is subject to the following conditions and limitations.

I. This warranty is limited to the provision of replacement components for Product sold by Lang to a joiner company for installation aboard a cruise ship, or a cruise ship company for installation aboard its own ship. The provision of replacement components to affect Product repairs will be on a nocharge basis during the term of the warranty. Replacement components will be sent to the address required within 48 hours of Lang receiving written notification of the description of the defect and the model and serial number of the Product affected by the repair.

Quartz elements are warranted for ninety (90) days from the date of installation.

**II.** Damage during shipment is to be reported to the carrier, is not covered under this warranty, and is the sole responsibility of purchaser/user.

- **III.** Replacement components will be shipped F.O.B. factory with freight prepaid. Replacement component damage related to shipment is not covered under this warranty.
- **IV.** This warranty does not cover consumable parts such as quartz elements, and does not cover defects caused by improper installation, abuse, careless operation, or improper maintenance of Product.
- **V.** All warranties are conditioned upon Lang's receipt of written notice of any defect prior to the end of the applicable warranty period.
- VI. THIS WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, EACH OF WHICH IS HEREBY EXPRESSLY DISCLAIMED. THE REMEDIES DESCRIBED ABOVE ARE EXCLUSIVE AND IN NO EVENT SHALL LANG BE LIABLE FOR SPECIAL, CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR THE BREACH OR DELAY IN PERFORMANCE OF THIS WARRANTY.
- VII. Lang Equipment is for cruise line use only. If sold as a component of another (OEM) manufacturer's equipment, or if used as a consumer product, such Equipment is sold AS IS and without any warranty.