



**Installation,
Operation, and
Maintenance, & Troubleshooting**

Electric Marine & Cruise Line Griddle

Model: CLG36F CLG36THE
 CLG48F CLG48THE

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 APPLIANCE MUST BE STRANDED COPPER.

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

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CAUTION: GRIDDLE IS EXTREMELY HEAVY. 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 GRIDDLE WILL BE LOCATED MUST BE DESIGNED TO SUPPORT THE WEIGHT OF THE GRIDDLE.



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 panel in the back of the griddle. If on a 48" or larger, the data plate is behind the back left access panel. The griddle 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.



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 LANG authorized service agent directory or call the factory at 314-678-6315, or www.langworld.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.



UNPACKING

3.1 Receiving the Griddle

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 Star Manufacturing International. File your claim with the carrier.

3.2 Location

Prior to un-crating, move the griddle 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 griddle will arrive completely assembled inside a wood frame covered by cardboard box and strapped to a skid. **Remove the cardboard cover, cut the straps and remove the wood frame.**

Remove griddle from skid and place in intended location.

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



INSTALLATION

DANGER: THIS APPLIANCE MUST BE GROUNDED AT THE TERMINAL PROVIDED. FAILURE TO GROUND THE APPLIANCE COULD RESULT IN ELECTROCUTION AND DEATH.



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NOTICE: The data plate is located behind the access panel in the back of the grill. If on a 48" or larger, the data plate is behind the back left access panel. The griddle 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.



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4.1 Electrical Connection

There is one power supply connection on 2, 3 and 4 foot griddles. There are two power supply connections on 5 and 6 foot griddles. Refer to the power supply chart on the next page for proper power supply size.

There is (1) one 1 1/4 inch conduit knockout on 2, 3, and 4 foot griddles located at the rear of the griddle, through the back and the bottom of the griddle body. There are (2) two 1 1/4 inch conduit knockouts provided on the 5 and 6 foot griddles. Use a supply wire suitable for at least 90° C.

4.2 Griddle Voltage

This griddle is shipped from the factory wired for 208/240 or 480 volts. The 208/240 griddle is a dual voltage design. Jumper wires on terminal strip next to the main power supply connection determine the griddle voltage. For a 208 volt power supply, leave the jumpers in place. For a 240 volt power supply disconnect the jumpers as indicated on the tag to the terminal strip. The 480 volt griddle can be operated on 480 volts only.

4.3 Phasing

All griddles are shipped from the factory set up for a **three phase** service. Rearrange the wires in the power supply terminal block to convert the griddle to single phase. Rephasing the griddle is not chargeable to Star Manufacturing International as warranty. To convert to **single phase** follow the chart located on the next page.

INSTALLATION CONT'D

GRIDDLE SPECIFICATIONS																			
MODLE NUMBER	TOTAL KW	NOMINAL AMPS PER LINE												WEIGHT					
		THREE PHASE						480 VOLT							SINGLE PHASE				
		208 VOLT			240 VOLT			LINE 1			LINE 2				LINE 3			208V	240V
		LINE 1	LINE 2	LINE 3	LINE 1	LINE 2	LINE 3	LINE 1	LINE 2	LINE 3	LINE 1	LINE 2	LINE 3		LINE 1	LINE 2	LINE 3		
CLG24F	12.0	50.0	28.8	28.8	50.0	43.3	25.0	25.0	25.0	43.3	21.7	12.5	12.5	57.7	50.0	210			
CLG36F	18.0	50.0	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	21.7	21.7	21.7	86.5	75.0	405			
CLG48F	24.0	75.0	50.0	50.0	50.0	65.5	65.5	43.3	43.3	43.3	32.5	32.5	21.7	115.2	100.0	515			
CLG60F #1	18.0	50.0	50.0	50.0	50.0	43.3	43.3	43.3	43.3	43.3	21.7	21.7	21.7	86.5	75.0	625			
CLG60F #2	12.0	50.0	28.8	28.8	50.0	43.3	25.0	25.0	25.0	43.3	21.7	12.5	12.5	57.7	50.0	625			
CLG72F #1	18.0	50.0	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	21.7	21.7	21.7	86.5	75.0	735			
CLG72F #2	18.0	50.0	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	21.7	21.7	21.7	86.5	75.0	735			

PHASING BY WIRE NUMBER									
MODEL NUMBER	THREE PHASE						SINGLE PHASE		
	LINE 1	LINE 2	LINE 3	LINE 1	LINE 2	LINE 3	LINE 1	LINE 2	LINE 3
CLG24F	1,4	2	3	1,3	2,6	2,6			
CLG36F	1,4	2,5	3,6	1,3,5	2,4,6	2,4,6			
CLG48F	1,4,7	2,5,8	3,6,9	1,3,5,7	2,4,6,8	2,4,6,8			
CLG60F #1	1,4	2,5	3,6	1,3,5	2,4,6	2,4,6			
CLG60F #2	1,4	2	3	1,3	2,6	2,6			
CLG72F #1	1,4	2,5	3,6	1,3,5	2,4,6	2,4,6			
CLG72F #2	1,4	2,5	3,6	1,3,5	2,4,6	2,4,6			

INITIAL START UP

5.1 Initial Start Up

Before starting the griddle for the first time, clean the griddle body and cooking surface with a mild soap and water solution then rinse with clear water and dry.

Set the main power switch, located at the far left of the control panel, to the "ON" (up) position (there are 2 "ON" switches on 5 and 6 foot griddles).

Set the temperature dials to 200°F (93°C) degrees.

Heat the griddle at 200°F (93°C) degrees for 2 hours to evaporate any moisture that may be in the elements.

After 2 hours at 200°F (93°C) degrees, proceed with "SEASON THE COOKING SURFACE".

5.2 Season the Grill

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

To season, heat the griddle to 250°F (121°C) degrees.

Once at 250°F (121°C) degrees, coat the cooking surface with a non-salted vegetable oil.

Allow the griddle to stand at 250°F (121°C) degrees until the cooking surface looks dry then coat it again.

Heat the griddle to 350°F (176°C) degrees and repeat the procedure.

The griddle may emit a small amount of smoke as the cooking surface passes the 350°F (176°C) point. Do not be alarmed as oils associated with the manufacturing process may cause smoke and will stop when the griddle reaches 350°F (176°C) 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 Setting the Temperature

If different temperature settings across the same griddle are to be used, select one side of the griddle and run that at the lowest temperature. Adjoining sections should be set at progressively higher temperatures.

Do not try to run end sections hot and center sections cool.

6.2 Loading the Grill

An understanding of how the griddle sections are controlled will be a valuable aid in loading your griddle.

A thermostat independently controls each 12-inch section. Sensors are mounted under the griddle plate in the center of each cooking section.

If product is loaded directly over the temperature sensor, that section will turn on and the element will heat the entire cooking section. If the product is loaded to the side, front or back of the temperature sensor, the controller will react to the temperature change of the entire section instead of just one product.

During slow periods minimal loads, do not load directly over the temperature sensors as this will unnecessarily turn the elements on and over heat the remainder of the section not being utilized.

During busy periods, a systematic approach should be utilized in loading the griddle. Load the entire section from rear to front and continue cooking to the next section if necessary.

Turn the product and continue cooking until it has reached its desired degree of doneness.

Remove the product from the griddle.

When reloading the griddle, first use the griddle surface on which a previous load was not placed. This will ensure the proper griddle temperature.

MAINTENANCE & CLEANING

7.1 Daily Cleaning

WARNING: KEEP WATER AND SOLUTIONS OUT OF CONTROLS. NEVER SPRAY OR HOSE CONTROL CONSOLE, ELECTRICAL CONNECTIONS, ETC.



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Empty the grease drawer often or whenever it is 3/4 full. It is easily removed for washing.

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

Keep the griddle surface clean. After each cooking load, scrape the griddle surface with a griddle scraper to remove any carbonized grease.

7.2 Weekly or as Required

Once a week or when necessary 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.

A mild detergent with water or one of the many commercial griddle cleaners may be used.

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 section 5.2 on page 9).

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
Griddle will not heat	<ul style="list-style-type: none">• Failed element• Failed thermostat• No power to cord outlet• Open wire
Product burning	<ul style="list-style-type: none">• Product is cooked too long• Failed thermostat
Product under done	<ul style="list-style-type: none">• Failed thermostat

TROUBLESHOOTING CONT'D

9.2 TESTS

NOTICE:

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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 thermostat	<ul style="list-style-type: none">• Check thermostat for continuity, or that it is cycling on & off
Failed element	<ul style="list-style-type: none">• Remove the wires and check for proper resistance across the element

CAUTION:

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PARTS LIST

July 25, 2012, Rev. B

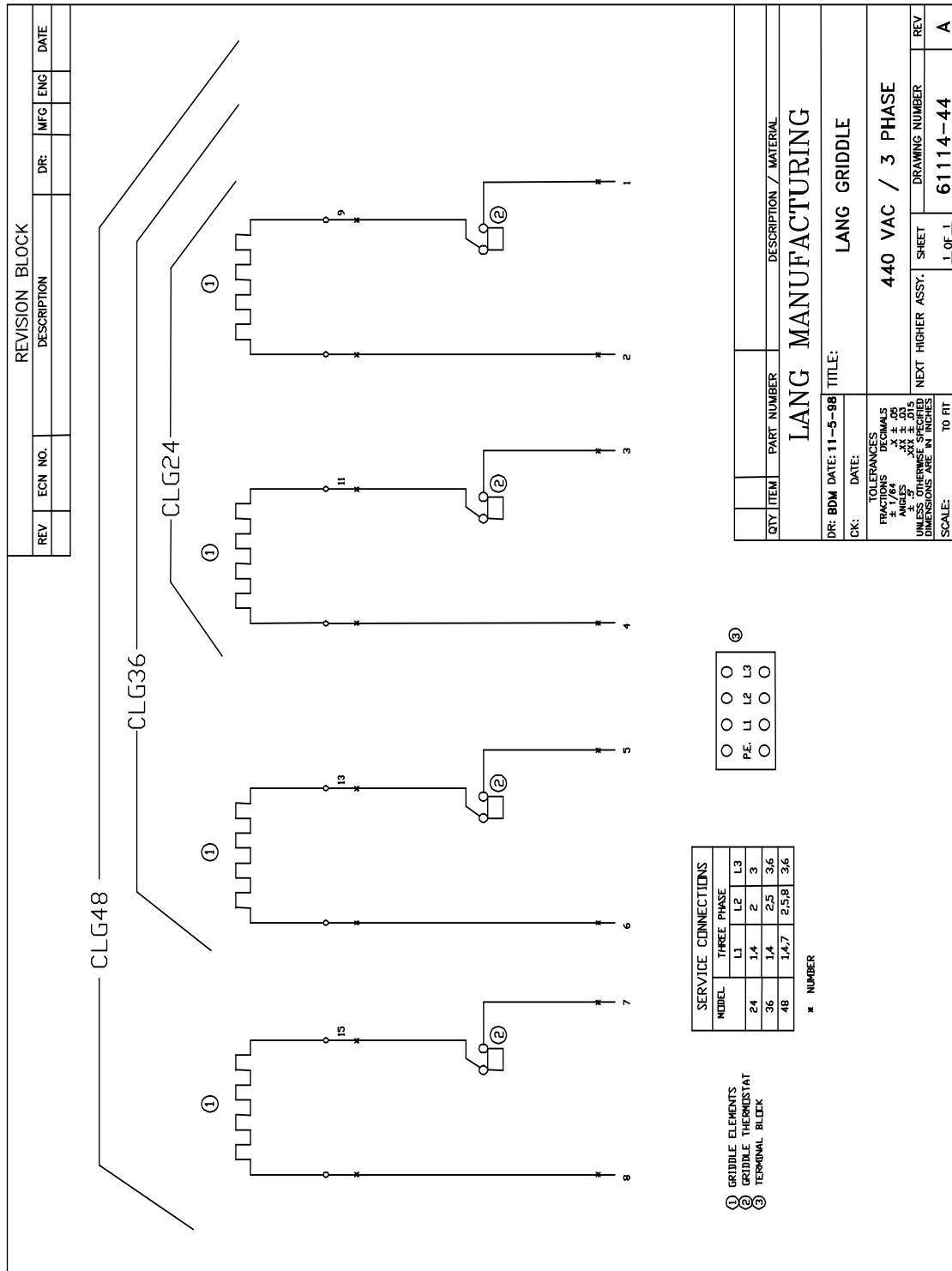
CLG36F, CLG36THE Electric Marine & Cruise Line Griddle

Part No.	Description	QTY	Application
2A-72500-05	LEG 4 W/BOLT DOWN ADJ	4	ALL
2D-73800-01	WATER PAN 1/3 HOTEL	1	ALL
2E-30500-11	TRM BLOCK 2 PLE LG 175AMP	2	ALL
2F-50404-07-1	LG PLT 1X35 7/8X22 15/16	1	ALL
2H-XL-424	ELEMENT PAN INSULATION	3	ALL
2N-11030-48	ELE GRD 440V 5991W XL/LG	3	ALL
2R-70701-28	KNB BLK 1/4BUSH2SETSCW@90	3	ALL
2T-30402-07	STAT ADJ 550o 48 C/T	3	ALL
K9-LGCL-425	ELEMENT PAN	3	ALL
K9-LGCL-723-31	GRDL PLT WELD 3' ACU PB	1	CL36GF-440V
K9-LGCL-723-W33	GRID PLT ASY-3' ACU CSE12	1	CLG36THE-440

CLG48F, CLG48THE Electric Marine & Cruise Line Griddle

Model: CL48GF, Electric Marine & Cruise Line Griddle			
Part No.	Description	QTY	Application
2A-72500-05	LEG 4 W/BOLT DOWN ADJ	4	ALL
2D-73800-01	WATER PAN 1/3 HOTEL	1	ALL
2E-30500-11	TRM BLOCK 2 PLE LG 175AMP	2	ALL
2F-50404-08-1	LG PLT 1X47 7/8X22 15/16	1	ALL
2H-XL-424	ELEMENT PAN INSULATION	4	ALL
2N-11030-12	ELE GRD SPECL 240V 5991W	4	240V
2N-11030-48	ELE GRD 440V 5991W XL/LG		440V
2R-70701-28	KNB BLK 1/4BUSH2SETSCW@90	4	ALL
2T-30402-07	STAT ADJ 550o 48 C/T	4	ALL
K9-LGCL-425	ELEMENT PAN	4	ALL
K9-LGCL-0723-41	PLATE ASSY WELD 4' ACU	1	CLG48G-440V
K9-LGCL-0723-44	PLATE ASSY WELD 4' ACCU	1	CLG48THE-440
Wiring Diagram			
2M-61114-W53	WD 4' ACU ELE GRID w/CSE12		CLG48THE-240V
2M-61114-44	WD 4' 440VAC 3 PHASE		440V

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, whichever 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 no-charge 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.

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