

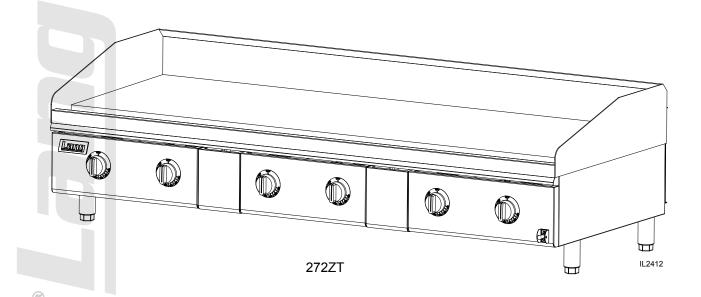
ENVIROZONE-TSTAT GAS GRIDDLE

Commercial

224ZT, 236ZT, 248ZT, 260ZT, 272ZT

Installation and Operation Instructions

2M-W1785 Rev. C 4/23/15





SAFETY SYMBOL





These symbols are intended to alert the user to the presence of important operating and maintenance instructions in the manual accompanying the appliance.

FOR YOUR SAFTEY

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

The installation of the Appliance must conform to the NATIONAL FUEL GAS CODE "ANSI Z223.1 - LATEST EDITION" AND ALL LOCAL GAS COMPANY RULES AND REGULATIONS.

IN CANADA INSTALLATION SHALL BE IN ACCORDANCE WITH THE CURRENT CAN/CGA-B149.1 NATURAL GAS INSTALLATION CODE OR CAN/CGA-B149.2 PROPANE INSTALLATION CODE AND LOCAL CODES WHERE APPLICABLE.

POST IN 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, OPERATION & MAINTENANCE INSTRUCTIONS THOROUGHLY BEFORE INSTALLING OR SERVICING THIS EQUIPMENT.

WARNING



RISK OF FIRE OR ELECTRIC SHOCK DO NOT OPEN



WARNING, TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT REMOVE CONTROL PANEL. NO USER-SERVICABLE PARTS INSIDE.
REPAIRS SHOULD BE DONE BY AUTHORIZED SERVICE PERSONNEL ONLY.

NOTICE

Using any part other than genuine Lang factory supplied parts relieves the manufacturer of all liability.

Lang reserves the right to change specifications and product design without notice. Such revisions do not entitle the buyer to corresponding changes, improvements, additions or replacements for previously purchased equipment.

Due to periodic changes in designs, methods, procedures, policies and regulations, the specifications contained in this sheet are subject to change without notice. While Lang Manufacturing exercises good faith efforts to provide information that is accurate, we are not responsible for errors or omissions in information provided or conclusions reached as a result of using the specifications. By using the information provided, the user assumes all risks in connection with such use.

MAINTENANCE AND REPAIRS

Contact your local dealer for service or required maintenance. Please record the model number, serial number, voltage and purchase & Installation Information in the area below and have it ready when you call to ensure a faster service.

Model No.:	 Purchased From:
Serial No.:	 Location:
Voltage:	 Purchase Date:
1-Phase or 3 Phase:	Installed Date:



PROBLEMS, QUESTIONS or CONCERNS

Before you proceed consult you authorized Lang service agent directory or

Call the Lang Technical Service Department at (314) 678-6315

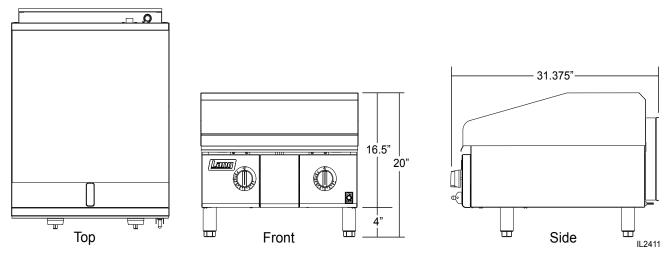
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NOTICE

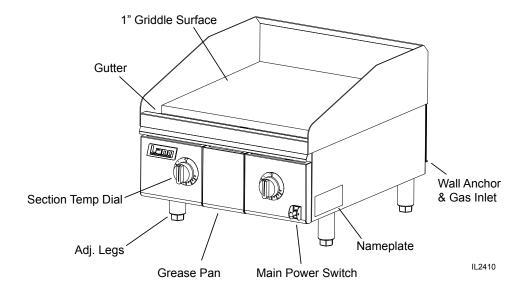
Service on this or any other Lang appliance must be performed by qualified personnel only. Consult your Lang Authorized Service Agent Directory. You can call technical service at (314) 678-6315 or visit our website WWW.LANGWORLD.COM for the service agent nearest you.

EQUIPMENT SPECIFICATIONS



GAS AND ELECTRIC INPUT REQUIRMENTS								
MODEL	DES	SCRIPTION	TOTAL BTU INPUT		040	ELECTRICAL		CORD/PLUG
MODEL NUMBER	Unit	Griddle Surface	NATURAL	PROPANE	GAS CONNECTION	CONNECTION		& PRESSURE
NOMBER	Width	Depths	5" WC	10" WC	OCIVICATION	VOLTAGE	AMPS	REGULATOR
224ZT	24"	24"	54,000	54,000				
224ZTD	24	30"	70,000	70,000				
236ZT	36"	24"	81,000	81,000				
236ZTD	30	30"	105,000	105,000				
248ZT	48"	24"	108,000	108,000	ONE 3/4" NPT	115 VOLT	2	SUPPLIED
248ZTD	40	30"	140,000	140,000	ONE 3/4 INFT	I IIS VOLI	2	SUPPLIED
260ZT	60"	24"	135,000	135,000				
260ZTD	00	30"	175,000	175,000				
272ZT	72"	24"	162,000	162,000				
272ZTD	12	30"	210,000	210,000				

	SPECIFICATIONS AND INFORMATION											
MODEL NUMBER		URFACE RALL	SQUARE INCHES OF GRIDDLE	NUMBER OF BURNERS NUMBER OF CONTROLS				CLEARANCE FROM NON- COMBUSTIBLE SURFACES			WEIGHT	
	WIDTH	DEPTH	ONIDDEL	BOTTILLITO		DIVWERO	SIDES	BACK	BOTTOM	ACTUAL	SHIPPING	
224ZT	24 "	23 "	552	2	2	1	0 "	5 "	4 INCH LEG	255	300	
224ZTD	24	30 "	720		2	ı	U	5	4 INOT LEG	200	300	
236ZT	36 "	23 "	828	3	3	1	0 "	5 "	4 INCH LEG	336	400	
236ZTD	36	30 "	1,080] 3) 	ı	U	5	4 INCH LEG	330	400	
248ZT		23 "	1,104									
248ZTD	48 "	30 "	1 110	4	4	2	0 "	5 "	4 INCH LEG	435	500	
248TDC		30	1,440									
260ZT	60 "	23 "	1,380	E	E	2	0 "	5 "	4 INCLL FO	520	625	
260ZTD	1 00	30 "	1,800	5 5	2	U	5	4 INCH LEG	530	025		
272ZT	70 "	23 "	1,656	6	6	2	0 "	5 "	4 INCH I FC	610	705	
272ZTD	72 "	30 "	2,160	6	6	2	U	5	4 INCH LEG	610	725	



Exterior Construction

The griddle dimensions are 17" (43.18cm) High, 30" (76.20cm) Deep, and width is dependent on the actual model number.

The Sides, Bottom, and Rear wall are constructed of double wall stainless steel, which allows closer installation to combustible surfaces.

The griddle surface is made of 1" thick, highly polished steel to reduce hot and cold spots, recovery problems, warping, and ensure even heat to the edges of the griddle.

Operation

- Each 12" section has its own snap-action thermostat and gas valve that are fully "ON" or fully "OFF".
- The control has factory configurable maximum and minimum temperature settings. The maximum temperature value can be set at 550°F (288°C). The minimum temperature value can be set at 200°F (93°C).

Technical

- Griddle operates on either Natural gas or Propane, which must be specified when ordering.
- It is shipped with a power cord and plug attached.
- Floor space required is 30" (76.20cm) Deep, and width is 2 ft, 3ft, 4ft, 5ft, or 6ft depending on actual model number.
- The griddle weighs 255, 336, 435, 530, 610 lbs. depending on actual model number.

Griddle Gas and Voltage Specifications

The Lang Model can be connected to any 120 Volt source. The gas and electrical specifications are listed in the table on the previous page.

NOTICE

The data plate is on the right side of the griddle. The 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.

UNPACKING

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 it 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. File your claim with the carrier.



Location

Prior to un-crating, move the griddle 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 griddle will arrive completely assembled inside a wood frame and strapped to a skid. Cut the straps and remove the wood frame.

The griddle can now be removed from the skid.



THE UNIT 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.

ANY STAND, COUNTER OR OTHER DEVICE ON WHICH GRIDDLE WILL BE LOCATED MUST BE DESIGNED TO SUPPORT THE WEIGHT OF THE GRIDDLE. SHIPPING STRAPS ARE UNDER TENSION AND CAN SNAP BACK WHEN CUT.

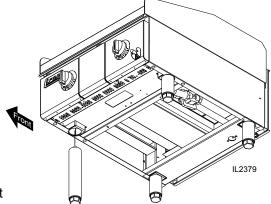
LEG INSTALLATION

The legs are installed by sliding the threaded ends of the legs into the leg receiver tubes located in each corner of the griddle.

Slide the leg up until contact is made with the threaded nut at the top of the reciever tube. Screw the leg counterclockwise until it is hand tight.

After the griddle is in its final position, adjust the legs to create 1/8 inch slant from back to front. This will allow the grease to run into the front grease gutter and provide the proper combustion air for the burners. It will also allow exposed gasses to escape out the rear of the unit.

Level unit by adjusting the (4) legs for accurate and perfect lineup with other units.



VENTILATION & CLEARENCE

CLEARANCE

For use on non-combustible countertops only.

Combustible and non-combustible material must be at least 48" (120cm) from the top of the appliance. Combustible material must be 5" (150mm) from the sides and back, while clearance to non-combustible material on the sides and back is 0". Adequate clearance should also be provided for proper operation and servicing.

AIR SUPPLY

Make certain not to obstruct the flow of combustion and ventilation air. Provisions for adequate air supply must be furnished. The legs supplied with the unit must be installed. Make certain that air intake openings in the bottom of the appliance are not obstructed. They are essential for proper combustion and operation of the appliance.

EXHAUST CANOPY

It is essential that facilities be provided over the griddle to carry off fumes and gases. However, the unit should not be directly connected to a flue or stack.

INSTALLATION

Electrical Connection

The griddle is supplied with a cord and plug. The receptacle is not provided with the griddle.

Follow the receptacle manufacturer's instructions when connecting the receptacle to the power supply.

Gas Connection

This griddle is manufactured for use with the type of gas indicted on the nameplate.

Contact the factory if your type of gas does not match the nameplate data.

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

This appliance should be installed with a separate gas valve in the gas line ahead of the unit. Use a 3/4 inch or larger gas supply line.

Remove the 5/16 inch nuts securing the rear of burners. These nuts are for securing the main burners during transportation only. The rear burner shield must be removed to gain access to the nuts.

A pressure regulator for the type of gas specified is installed on each appliance.

This regulator must be installed in the gas supply line. (Note the direction of the gas flow arrow.) The pressure in the manifold of the appliance should be tested with a manometer and the regulator adjusted for proper pressure with the appliance operating at full fire. A 1/8 inch NPT tap is provided in the manifold for connecting a manometer.

Correct manifold pressures are:

5 inches water column for natural gas

10 inches water column for propane

When replacing the plug in the manifold, a pipe joint compound or sealant should be used that is resistant to the action of liquid petroleum gas.

Initial adjustments are the responsibility of the installer and are not chargeable to Lang Manufacturing International.

After the griddle is in its final position, adjust the legs to create 1/8 inch slant from back to front. This will allow the grease to run into the grease gutter and provide the proper combustion air for the burners.

DANGER:

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



INSTALLATION OF THE UNIT MUST BE DONE BY PERSONNEL QUALIFIED TO WORK WITH ELECTRICITY AND 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 on the right side of the griddle. The griddle voltage, 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.

INITIAL START UP

Initial Lighting Procedure

Clean the preservative coating from the griddle plate and splash guard. Add a mild detergent to hot water and wash the griddle plate and splash guard. Rinse with a damp sponge and dry with a clean rag.

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

- Plug the unit into a 115-volt power supply.
- Turn the ON-STANDBY toggle switch to ON.
- Set the temperature dials to the desired temperature.
- To turn the griddle off, simply turn the main toggle switch to STANDBY.

Seasoning the Griddle Plate (non chrome only)

- Set the temperature dials to 300°F (148°C).
- Observe the burners through the opening at the top of the control panel.
- When the burners go OFF, apply a thin coat of high-grade, non-salted vegetable oil to the griddle surface.
- Rub the oil into the griddle surface with the flat side of a spatula or a towel.
- · Recoat any dry spots that appear then wait two minutes and wipe off any excess oil.
- Repeat the seasoning process at 350°F (176°C) and at 400°F (204°C).

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

OPERATION

Setting the Griddle Temperature

The suggested time and temperature chart (below) is provided as a guide for the products listed only.

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

Do not try to operate the end sections hot and the center sections cool.



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

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

SUGGESTED TIMES AND TEMPERATURES				
PRODUCTS	TEMPERATURE (F / C)	TIME (MIN)		
HAMBURGER	,	,		
2 patties per LB	05005 (47000)	6 to 8		
4 patties per LB	350°F <i>(176°C)</i>	4 to 6		
6 patties per LB		3 to 4		
STEAKS				
1/2 to 3/4 inch thick, cooked medium	27595 (40090)	5 to 7		
3/4 to 1 inch thick, cooked medium	375°F (190°C)	8 to 10		
Lamb Chops		6 to 8		
Pork Chops	350°F (176°C)	6 to 8		
Salmon		6 to 8		
Halibut	325°F (162°C)	6 to 8		
Snapper	323 F (102 C)	6 to 8		
Hashbrown Potatoes	375°F (190°C)	3 to 4		
Bacon	350°F (176°C)	3 to 4		
Sausage Links or Patties	, ,	3 to 4		
Ham (Pre-cooked)	375°F (190°C)	2		
Eggs	275°F (135°C)	2 to 4		

Note: The times and temperatures in this chart are intended as a general guide and starting point. Your actual times and temperatures may vary from this chart.

OPERATION

Loading the Griddle

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

Each 12 inch section of your griddle is independently controlled. The temperature control sensor is mounted under the griddle plate in the center of each cooking section.

If the product is loaded directly over the temperature sensor, that section will turn on and the burner will heat the entire cooking section. If the product is loaded to the side, front or back of the temperature sensor, the thermostat will react to the temperature change much slowly.

During slow periods with minimal loads, do not load directly over the thermostat sensors as this will unnecessarily turn the burners on and overheat the remainder of the section not being utilized.

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 insure you the proper griddle temperature.

SEQUENCE OF OPERATION

Power On

When the griddle is connected to 115 Volt power, and the switch is turned "ON" the spark module for each section starts sparking.

When the individual pilot tubes ignite, and the pilot flame is verified, the spark module will stop sparking. Note: The pilot tubes will remain lit until the griddle is turned "OFF" or the gas is shut off.

The operator can now set the temperature of that section by selecting it on the temperature dial.

When the temperature on the dial is set higher than the temperature of the griddle section the thermostat will generate a "Heat Call". If the pilot tube is lit, the call goes to the control opening the valve. The pilot burner ignites the main burner.

As the griddle section temperature increases the thermostat turn off the heat call, followed by the close of the gas valve.

When the griddle temperature drops below the set temperature the thermostat generates a new heat call and the sequence repeats.

MAINTENANCE & CLEANING

Daily Cleaning (Non chrome only)

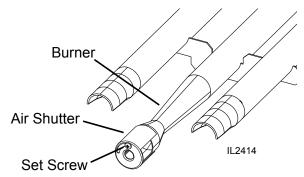
- Empty the grease drawer daily or whenever it is 3/4 full. Clean using mild soap and warm water.
- Keep the griddle surface clean. After each cooking load, scrape the griddle surface to remove any carbonized grease.
- Once a day or when necessary the non chrome griddle surface should be thoroughly cleaned and seasoned again. Use a griddle stone, griddle pad, or liquid cleaner. Rub with the grain of the metal, being careful not to scrape the splash guard.
- Following the scraping, a damp cloth and non-silicated, non-abrasive, non-chlorinated cleaner such as Bon-Ami may be used to wipe surface clean, followed by wiping with a clean wet cloth.

Weekly Cleaning (Non chrome only)

- · A mild detergent with water or one of the many commercial cleaners may be used.
- Be sure to rinse thoroughly and coat the griddle with a thin film of oil to prevent rusting, non-chrome surfaces only.
- Clean the exterior of the appliance with hot water and a mild detergent to maintain a gleaming appearance.
- Re-season the griddle plate after each cleaning, non-chrome surfaces only.

Burner Air Shutter Adjustment

- The air shutters are pre-set at the factory. However, minor adjustments may be required in the field to accommodate differences in gas and elevation.
- To adjust the air shutters, loosen the set screw holding the air damper to the burner near the gas inlet.
- Adjust the air mixture until the burner flame just flickers on the burner. "Lift-off" or yellow flame indicates improper shutter adjustment.
- Periodically inspect and clean the air shutters to insure complete combustion.



Griddle Care (Chromium Surfaces)

It takes very little time and effort to keep this Industrial Chromium griddle surface sparkling clean and performing at top efficiency. DO NOT allow grease to accumulate as it will carbonize and become difficult to remove. To prevent this condition the following cleaning suggestions should be followed:

- 1. Remove excess grease and food regularly with a 4" (100mm) wide Razor Sharp type scraper and wipe surface with a damp cloth if desired.
- 2. Following the scraping, for end of the day cleaning, a damp cloth and a non-silicated, nonabrasive, non-chlorinated cleaner such as Bon-Ami may be used to wipe surface clean, followed by wiping with a clean wet cloth.
- 3. Follow steps 2 and 3 from Griddle Care (Non-Chromium Surfaces) above.

CAUTION

- 1. Never use pumice, griddle stones, or abrasives on a chromium surface.
- 2. Never strike a chromium griddle surface with a sharp instrument or spatula edge.
- 3. **Never** use steel wool.
- 4. **Never** use commercial liquid grill cleaner on the griddle surface.
- 5. Abusing surface voids the warranty.

MAINTENANCE & CLEANING continued

CHROME GRIDDLE SURFACE LIMITED WARRANTY EXCLUSIONS

Your Chrome griddle has been designed to give you many years of cooking reliability and requires minimum maintenance to keep the chrome surface in its original condition. All Chrome griddle surfaces are warranted for a period of 5 years against manufacturing defects to the original owner from the date of installation. This limited warranty is void if it is determined by Lang Manufacturing or one of its authorized representatives that the chrome surface has been misused or abused or subjected to the following situations:

- 1. Improperly installed.
- 2. Incorrect voltage applied to Chrome units allowing the surface to overheat and discolor.
- 3. The misuse of any instrument or tool which scratches or makes indentations in the surface which could cause the surface to peel, flake, or chip off.
- 4. The use of any chemical or abrasive cleaning solution, griddle brick, stone, screen or other cleaning products which could damage and affect the performance of the chrome surface.
- 5. The neglect of daily routine maintenance to the chromium surface.





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

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.

Calibration

- Set the temperature dials to 350°F (176°C)
- Allow the burners to cycle ON and OFF at least five times before attempting to calibrate
- Place a surface thermometer in the center of each cooking section to be calibrated.
- Allow the burners to cycle several times while recording the temperature at which the burners turn ON and OFF.
- Average the temperatures together, if the average temperature is within 10° of the set temperature, the thermostat is within specifications and needs no adjustment.
- If the thermostat is out of specification, remove the thermostat knob and inset a small flat blade screw driver down the stem of the thermostat and turn the adjusting screw at the base of the stem.
- Turning the screw counter-clockwise raises the griddle temperature while clockwise lowers the temperature.

TROUBLESHOOTING

Symptoms

The chart below is to assist in the troubleshooting of the griddle.

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

	Lang Envirozone Thermostat Gas Griddle Troubleshooting							
Symptom	Possible Cause	Test						
	Griddle not plugged in	Check power cord connection						
No sections spark	Switch power not connected	Check connection of switch on the front panel						
	No power at plug	Verify plug has power						
	Main connector on pilot iginition control not plugged in properly	Check all connections on pilot ignition control						
One or more sections do not spark	Spark wire not connected to pilot ignition controller or ignitor	Check spark wire (orange wire) connections						
	Pilot iginition control failed	Replace pilot ignition control						
	No gas to griddle	Check gas connection and shut off valve						
	Gas supply not purged of air	Try ignition sequence again						
Ignitor sparks, but does not light pilot tube	No gas to pilot tube	Check that pilot valve(s) are opened. Turn screw on valve counter-clockwise						
		Check voltage across pilot solenoid valve, should be 120V						
	Ignitor is sparking away from electrode	Check that ignitor is sparking across the electrodes						
	All pilot tube ports are not lit	Check that all ports on pilot tube are lit						
Pilot tube is lit, but burner will not light	Thermostat failed	Turn thermostat to max temp and check resistance across thermostat						
Will flot light	Gas valve failed	Apply 120V to valve and listen for solenoid actuation						
Ignitor continues to spark after pilot tube is lit	Electrode not sensing pilot flame because flame is too small	Adust pilot flame by opening pilot valve. Turn screw on valve counter-clockwise						
Yellow or orange in pilot	Primary air hole covered	Check air hole in pilot tube near inlet elbow for any obstruction						
flame	Pilot flame too large	Adust pilot flame by closing pilot valve. Turn screw on valve clockwise						

NOTICE:

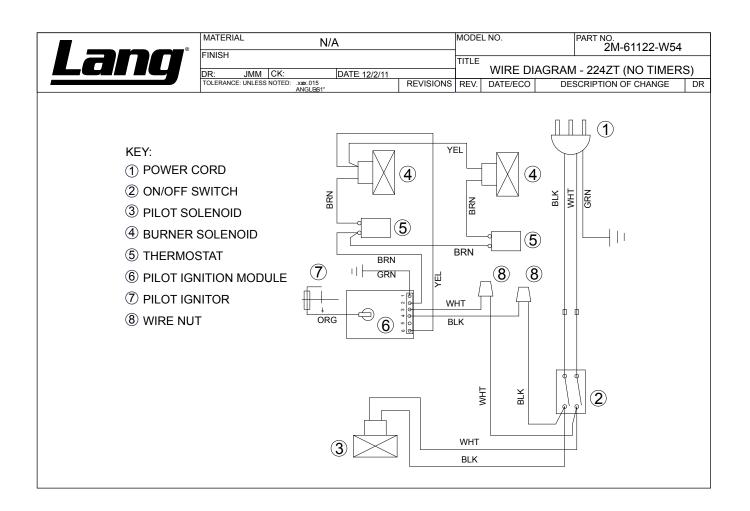
Service on this, or any other, LANG appliance must be performed by qualified personnel only. Consult your LANG authorized service agent directory or call technical service at (314) 678-6315, or www.langworld.com For the service agent nearest you.

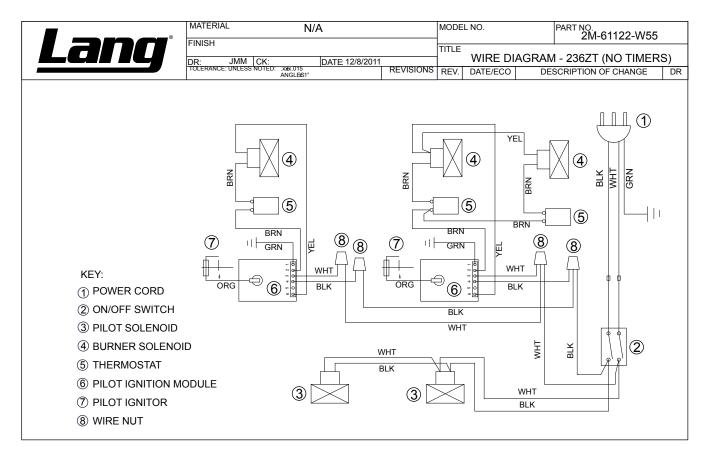


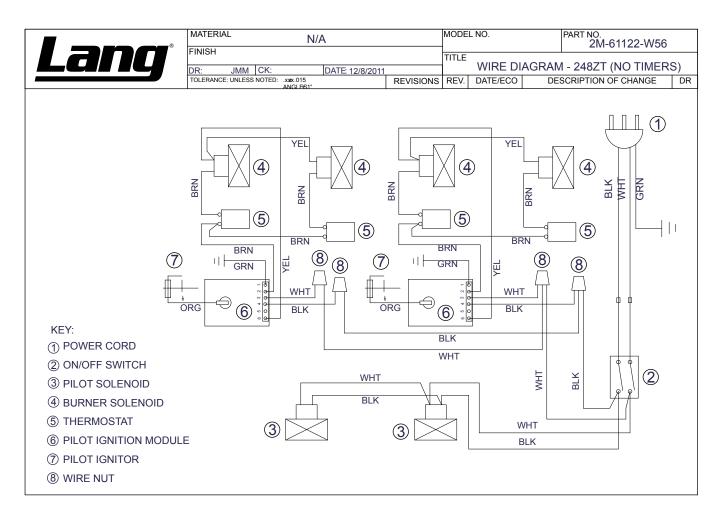
120 VOLTAGES IS PRESENT INSIDE THIS APPLIANCE WHEN THE UNIT IS PLUGGED/WIRED INTO A LIVE RECEPTACLE. BEFORE REPLACING ANY PARTS, DISCONNECT THE UNIT FROM THE ELECTRIC POWER SUPPLY.

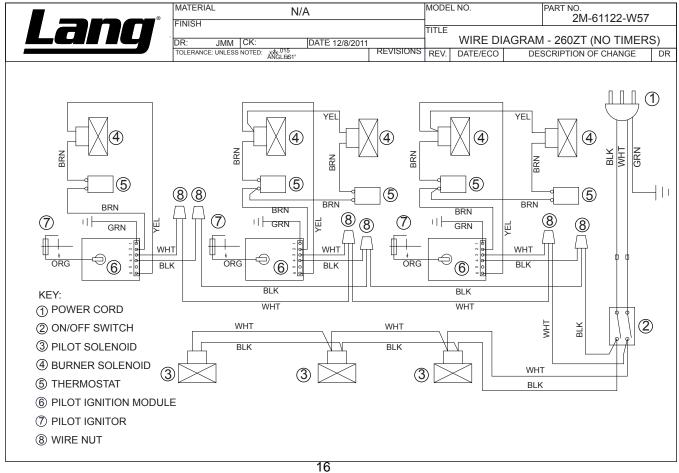


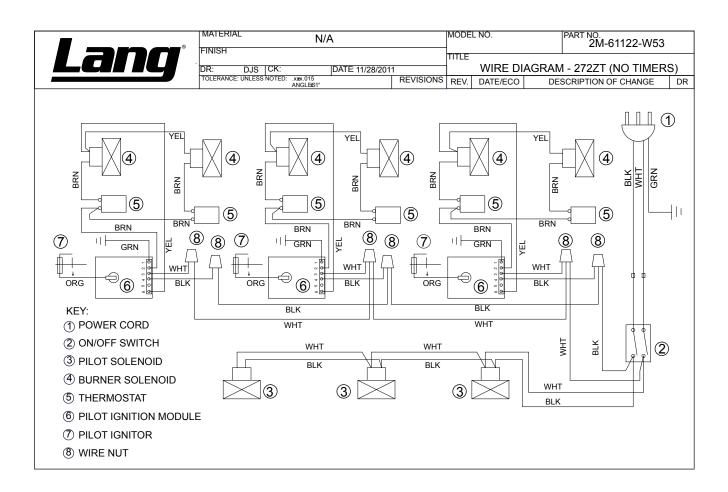
USE OF ANY REPLACEMENT PARTS OTHER THAN THOSE SUPPLIED BY LANG OR THEIR AUTHORIZED DISTRIBUTORS CAN CAUSE BODILY INJURY TO THE OPERATOR AND DAMAGE TO THE EQUIPMENT AND WILL VOID ALL WARRANTIES.

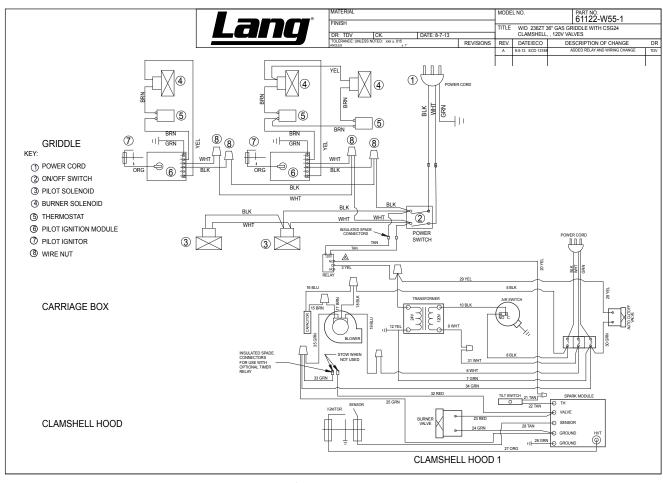


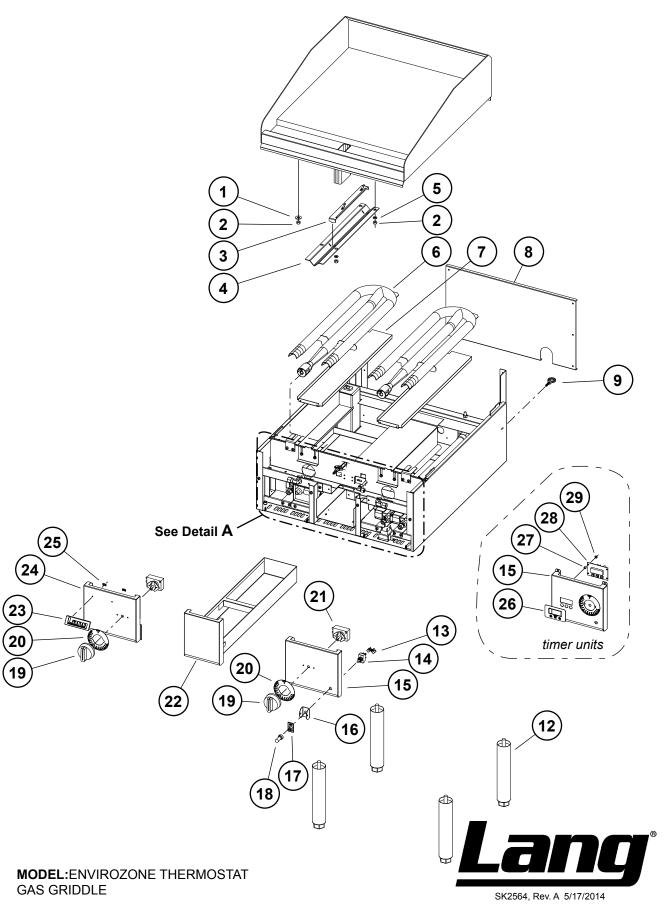












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	M	odel: 224ZT,	236ZT, 248ZT, 260ZT, 272ZT GAS (GRIDDLE		
Fig No	Part Number	Quantity	Description	Application		
1	2C-20201-06	2	WSHR PLT 5/16 FLAT USS	ALL		
	2C-20301-06	10		224ZT		
		14		236ZT		
2		18	NUT HEX 5/16-18 PLTD	248ZT		
		22	7	260ZT		
		26	7	272ZT		
		2		224ZT		
		3	_	236ZT		
3	K9-Z4793-W1	4	BULB CLAMP - EZONE	248ZT		
		5	7	260ZT		
		6	_	272ZT		
		2		224ZT		
		3	7	236ZT		
4	K9-Z4794-W1	4	BULB HOLDER - EZONE	248ZT		
		5	7	260ZT		
		6	7	272ZT		
		8		224ZT		
	5 2C-20202-08			12	7	236ZT
5		16	WSHR PLT 5/16 LOCK SPLIT	248ZT		
J		20		260ZT		
		24		272ZT		
		-	<u> </u>			
	K9-141-171-W2	2	4	224ZT		
		3	ODIDDI E DUDNED 400V	236ZT		
		4	GRIDDLE BURNER ASSY	248ZT		
		5	4	260ZT		
6		6	<u> </u>	272ZT		
		2	-	224ZTD		
	100 444 474 0140	3		236ZTD		
	K9-141-171-3W2	4	GRIDDLE BURNER ASSY-30" DEEP	248ZTD		
		5	-	260ZTD		
		6	<u> </u>	272ZTD		
		2	-	224ZT		
	1/0 1/1 101	3	DAFFI E LINDED DUDNED	236ZT		
	K9-141-181		BAFFLE UNDER BURNER	248ZT		
7		5	-	260ZT		
		6		272ZT		
	V0 141 199	2	DAEELE DETWEEN DUDNEDO	248ZT		
	K9-141-182	3	BAFFLE BETWEEN BURNERS	260ZT		
	V0 F7C 202 W04	3	FILIE 42 OPIDDLE WICCOM	272ZT		
	K9-EZG-382-W04	-	FLUE 1' - GRIDDLE W/CSG24 FLUE BRACKET-GRID W/CSG24	260ZTHG		
	K9-EZG-382-W8 K9-141-271-2	-	FLUE BRACKE I-GRID W/CSG24 FLUE 2'	2247T		
	K9-141-271-2 K9-141-271-3	-		224ZT		
8		1	FLUE 3'	236ZT 248ZT		
	K9-141-271-4 K9-141-271-5	-	FLUE 4'			
		-	FLUE 5'	260ZT		
	K9-141-271-6	-	FLUE 6'	272ZT		
	K9-141-271-W8	4	FLUE 2' - EZN GRID W/CSE12	224ZTCHG, 224ZTCHE		
9	2C-20119-01	1	EYEBLTFORGD/SHLDR1/4-20X1	ALL		
10	K9-141-122-W3	1	RIGHT SIDE	ALL		

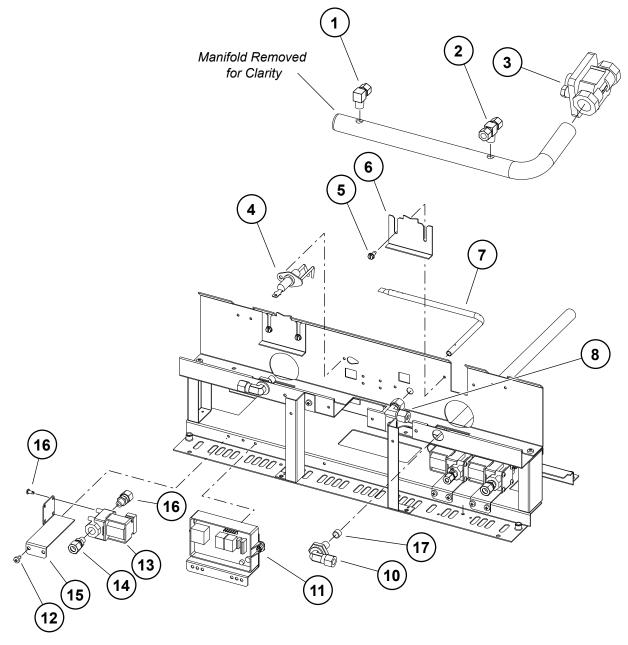
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	Model: 224ZT, 236ZT, 248ZT, 260ZT, 272ZT GAS GRIDDLE							
11	K9-141-107-1	1	LEFT SIDE STD	ALL				
12	2A-72500-20	4	LEG 10.25 WITH ADJ HEX	ALL				
13	2C-31007-01	2	TERM DOUBLER FEMALE	ALL				
14	2E-Z12020	1	SWITCH-TOGGLE 2P ST	ALL				
	K9-141-231-2-W2		FRONT PANEL-RIGHT WELDMNT	224ZT				
	K9-141-231-2-W3		FRONT PANEL-ASSY RIGHT w/TIMER	248ZTC-TNAT				
	K9-141-231-5-W2	-	CONTROL PANEL ASSY-5' MID	260ZT				
	K9-141-231-6-W3	1	CNTRL PANEL-MIDDLE ASY 6'	272ZT				
15	K9-141-236-W13	1	CONTROL PANEL - 4' & 6"	248ZT, 272ZT				
	K9-141-236-W14	1	FRONT PANEL - LEFT 6'	272ZT				
	K9-141-236-W15	1	FRONT PANEL - RIGHT 6"	236ZT				
	K9-141-236-W18	-	FRONT PANEL - 5' MIDDLE	260ZT				
16	Z1-70-07-0343	1	SWITCH GUARD	ALL				
17	2M-12-07-0038	1	LABEL ON & OFF	ALL				
18	2I-05-07-0033	1	BOOT SWITCH	ALL				
10	21-05-07-0013	2	BOOTSWITCH	224ZT				
		3	-	236ZT				
10	2D W400 2	4	LANCE DED METAL INCEDT 100					
19	2R-W498-2		KNOB-RED METAL-INSERT.188	248ZT				
		5	-	260ZT				
		6		272ZT				
	2M-W728-W4		2	4	224ZT			
		3		236ZT				
20		4	LABEL - CONTROL 200-550F	248ZT				
		5		260ZT				
		6		272ZT				
		2		224ZT				
		3		236ZT				
21	2T-30402-07	4	STAT ADJ 550o 48 C/T	248ZT				
		5		260ZT				
		6		272ZT				
	K9-50303-18	1	GRS BCKT ASSY, 141 FRT GTR	224ZT, 236ZT				
22		2		248ZT, 260ZT, 272ZT				
	K9-142-251	2	GREASE BUCKET ASSY	224ZTD, 236ZTD 248ZTD, 260ZTD, 272ZTD				
23	2M-60301-43	1	DIE CAST PLT LANG SATIN	ALL				
20	K9-141-241-W9		FRONT PANEL-LEFT END 2FT	224ZT, 236ZT, 248ZT, 260ZT				
24	K9-141-241-W8	1	FRONT PANEL-LEFT END 6"	272ZT				
	K9-141-241-W10	1	FRONT PANEL-LEFT W/TIMER	248ZTC-TNAT				
25	2C-20602-04	2	TINNERMAN SPD NUT 1/8 DIA	ALL				
26	2M-W1762	2	LABEL TIMER	TIMER UNITS				
27	2A-20504-12	8	SPACER - NYLON .3120D x .25	TIMER UNITS				
28	2J-40102-71	2	TIMER	TIMER UNITS				
29	2C-20301-11	8	NUT HEX 8-32 PLTD	TIMER UNITS				
NI	2E-31107-02-W2	1	CORDSET 14/3 15A 120V 10'	ALL				
NI	2M-61122-W54	AR	WIRE DIAGRAM - 224ZT	ALL				
NI	2P-50100-15	1	GRIDDLE SCRAPER 12"	CROME UNITS				
NI	2P-50100-15-1	-	RE-FILL REPLACEMENTS	CROME UNITS				
NI	2P-50100-15-1	1	BOM AMI CLEANER	CROME UNITS CROME UNITS				
	1		+					
NI	2P-50100-17	1	20" PALMYRA BRUSH	CROME UNITS				

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Some items are included for illustrative purposes only and in certain instances may not be available.





DETAIL A



	Model: 224ZT, 236ZT, 248ZT, 260ZT, 272ZT DETAIL A						
Fig No	Part Number	Quantity	Description	Application			
		1		224ZT, 236ZT			
1	2K-70101-03	2	BRASTBEELBOW 1/4NPT-3/8CC	248ZT, 260ZT			
		3		272ZT			
		1		224ZT			
2 2K-	2K-70101-06	2	BRASTEE BRNCH 1/4NPTM-3/8	236ZT, 248ZT			
		3		260ZT, 272ZT			
	2V-80501-04	4	GAS REG 3/4X3/4 CLS I	NAT			
3	2V-80501-05	1	GAS REG 3/4X3/4 CLS II	LP			
		1		224ZT			
4	2J-80302-W1	2	IGNITOR ELECTRODE	236ZT, 248ZT			
		3		260ZT, 272ZT			
		10		224ZT			
		18		236ZT			
5	2C-Z5883	20	10-24 X 1/2 FZA SCREW	248ZT			
		28		260ZT			
		30		272ZT			
	K9-141-146	2		224ZT			
		3	PROBE GUARD SUPPORT 248Z 260Z	236ZT			
6		4		248ZT			
		5		260ZT			
		6		272ZT			
		1		224ZT			
7	2F-80002-W19	2-W19 2	TUBE - LIGHTER .25 DIA	236ZT, 248ZT			
		3		260ZT, 272ZT			
		1		224ZT			
8	2K-70101-51	2	BRASTBE ELBOW 1/4CCX1/4CC	236ZT, 248ZT			
		3		260ZT, 272ZT			
		2		224ZT			
		3		236ZT			
10	2A-W1185	4	ORIFICE FITTING - 90 DEG	248ZT			
		5		260ZT			
		6		272ZT			
		1	KIT,IGN MOD REPLACMENT Z	224ZT			
11	PS-60101-W16	2	MODELS	236ZT, 248ZT			
		3		260ZT, 272ZT			
11a	2J-80300-W20-1	AR	PILOT IGNITION MODULE	ALL			
		22		224ZT			
		29		236ZT			
12	2C-20102-12	38	SCRW PHD ST 10-32X3/8	248ZT			
		44		260ZT			
		48		272ZT			

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	Model: 2	224ZT, 236	ZT, 248ZT, 260ZT, 272ZT DETAIL /	A
Fig No	Part Number	Quantity	Description	Application
		3		224ZT
		5		236ZT
13	2V-80502-W07	6	VALVE SOLENOID-1/8 NPT	248ZT
		8		260ZT
		9		272ZT
		5		224ZT
14		8		236ZT
	2K-45300	10	FITTING 3/8CC X 1/8NPT	248ZT
		13		260ZT
		15		272ZT
	K9-141-156-W4	2	VALVE BRACKET-RIGHT	248ZT, 260ZT
	N9-141-150-VV4	3	VALVE BRACKET-RIGHT	272ZT
	K9-141-156-W5	1	VALVE BRACKET LEFT	224ZT
15	N9-141-100-W0	2	VALVE BRACKET LEFT	236ZT, 248ZT, 260ZT
13	15	2		224ZT
	K9-141-156-W6	3	VALVE BRACKET-SHORT RIGHT	236ZT
	N9-141-150-VV0	4	VALVE BRACKET-SHORT RIGHT	260ZT
		6		272ZT
	2C-20102-08	12	SCRW PHD ST 8-32X.375	224ZT
		20		236ZT
16		24		248ZT
		32		260ZT
		36		272ZT
		2		224ZT-NAT
		3		236ZT-NAT
	2A-45408	4	4 ⊨	248ZT-NAT
		5		260ZT-NAT
		6		272ZT-NAT
		2		224ZT-LP
		3		236ZT-LP
	2A-80400-12	4	ORIFICE HOOD .0595 #53	248ZT-LP
		5		260ZT-LP
17		6		272ZT-LP
''		2		224ZTD-NAT
		3		236ZTD-NAT
	Y9-80400-18	4	ORIFICE HOOD .1065 #36	248ZTD-NAT
		5	_	260ZTD-NAT
		6		272ZTD-NAT
		2	_	224ZTD-LP
		3	_	236ZTD-LP
	Y9-80400-13	4	ORIICE HOOD .0892 #43	248ZTD-LP
		5	_	260ZTD-LP
		6		272ZT-LP

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PARTS LIST April 23, 2015, Rev. C

	Model: 224ZT, 236ZT, 248ZT, 260ZT, 272ZT DETAIL A						
Fig No	Part Number	Quantity	Description	Application			
	1		224ZT				
l ni	2K-70104-03	3	FLEXIBLE TUBE 3/8OD X 8	236ZT			
'"	2K-70104-03	4	FLEXIBLE TOBE 3/60D X 6	248ZT, 260ZT			
		6		272ZT			
ni	2K-70104-04	1	FLEXIBLE TUBE 3/8OD X 12	224ZT			
	ni 2K-Z4921		3	3		224ZT	
		5	BURNER TUBE FLEX 3/8 OD	236ZT			
ni		6		248ZT			
		8		260ZT			
		9		272ZT			
		1		224ZT			
ni	2K-Z6943	2	GAS LINE 1/4"D x 8"L	236ZT, 248ZT			
		3		260ZT, 272ZT			
		1		224ZT			
ni	K9-141-705	2	IGNITION WIRE	236ZT, 248ZT			
		3		260ZT, 272ZT			

STAR INTERNATIONAL HOLDINGS INC. COMPANY