



EV SERIES ELECTRIC RANGES

Customer Maintenance Manual

SPECIFICATION SHEETS

INSTALLATION / OPERATION MANUAL

ADDITIONAL RESOURCES

SERVICE MANUAL

HOBART SERVICE PARTS STORE

CATALOG OF REPLACEMENT PARTS



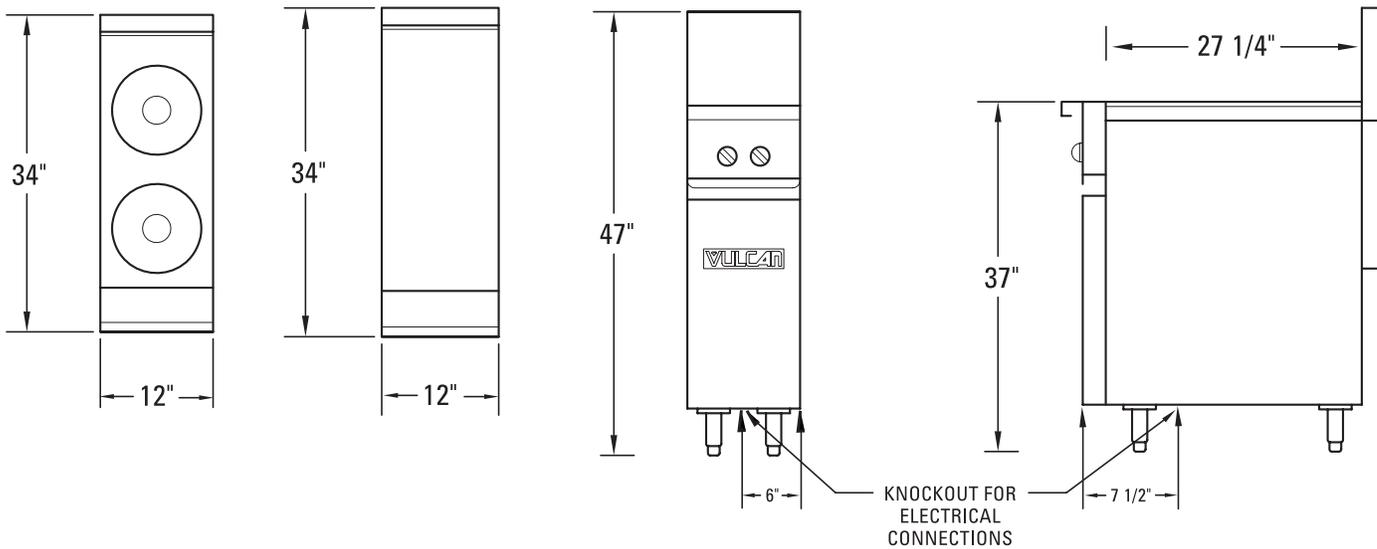
12" ELECTRIC RESTAURANT RANGE

INSTALLATION INSTRUCTIONS

Clearances from Combustible Construction

	Rear	Sides
Range with French Plates	0"	3"
Range with Griddle Tops	0"	3"
Range with Hot Tops	0"	6"

Ranges with an ESB Salamander Broiler mounted above:
Refer to the ESB Salamander Broiler spec sheet for clearance specifications.



208 OR 240 VOLT										
MODEL	TOTAL CONN. KW	LOAD KW PER PHASE								
		3-PHASE								
		L1 - L2			L2 - L3			L1 - L3		
EV12-2FP208	4	2.0			2.0			--		
EV12-2FP240	4	2.0			2.0			--		
NORMAL AMPS PER LINE										
3 PHASE										
1 PHASE										
208V			240V			208V	240V			
L1	L2	L3	L1	L2	L3	L1 - L2	L1 - L2			
EV12-2FP208	4	9.6	17.3	9.6	--	--	--	20.3		
EV12-2FP240	4	--	--	--	7.3	14.5	7.3	-- 16.7		
EV12-1HT208	5	--	--	--	--	--	--	24.0		
EV12-1HT240	5	--	--	--	--	--	--	20.8		

480 VOLT					
MODEL	TOTAL CONN. KW	LOAD KW PER PHASE			
		3-PHASE			
		X - Y	Z	Y - Z	
EV12-2FP480	4	2.0	2.0	--	
NORMAL AMPS PER LINE					
3 PHASE					
1 PHASE					
480V					
X	Y	Z	X - Z		
EV12-2FP480	4.0	3.6	7.3	3.6	8.3
EV12-1HT480	5	--	--	--	10.4

This appliance is manufactured for commercial use only and is not intended for home use.



a division of ITW Food Equipment Group LLC

P.O. Box 696 ■ Louisville, KY 40201 ■ Toll-free: 1-800-814-2028 ■ Local: 502-778-2791 ■ Quote & Order Fax: 1-800-444-0602

NOTE: In line with its policy to continually improve its products, Vulcan reserves the right to change materials and specifications without notice.

VULCAN

INSTALLATION & OPERATION MANUAL

ELECTRIC RESTAURANT RANGES

ITW Food Equipment Group



MODELS

EV12

EV48S

EV24S

EV48SS

EV36S

EV60SS

EV72SS



For additional information on Vulcan-Hart or to locate an authorized parts and service provider in your area, visit our website at www.vulcanequipment.com

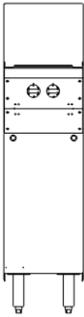
VULCAN-HART
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BALTIMORE, MD 21222

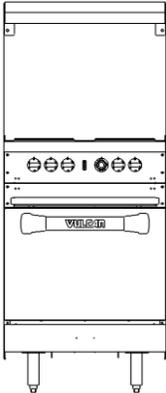
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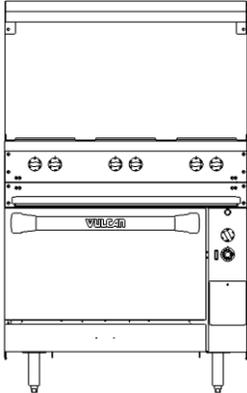
ELECTRIC RESTAURANT RANGE MODELS



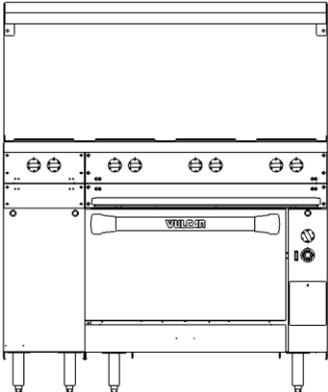
EV12



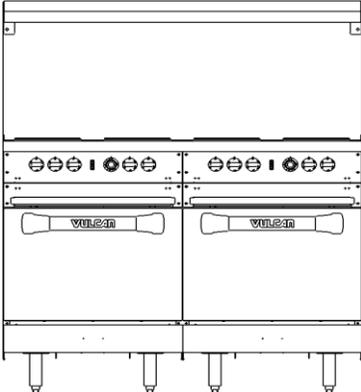
EV24S



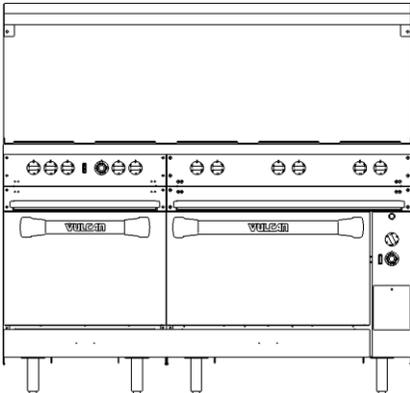
EV36S



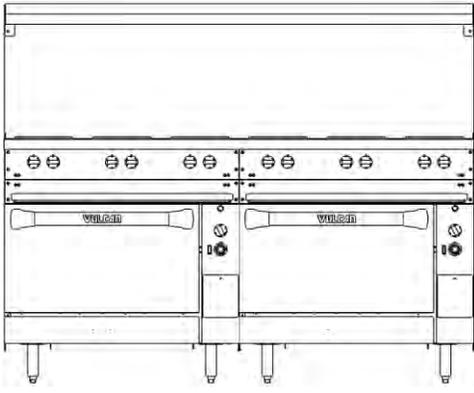
EV48S



EV48SS



EV60SS



EV72SS

INSTALLATION, OPERATION AND CARE OF ELECTRIC RESTAURANT RANGES

KEEP THESE INSTRUCTIONS FOR FUTURE USE

GENERAL

Thoroughly read this entire manual and carefully follow all of the instructions provided. Your Vulcan-Hart range is produced with quality workmanship and material. Proper installation, usage and maintenance of your range will result in many years of satisfactory performance.

OPTIONAL FIELD INSTALLABLE ACCESSORIES

ACCESSORY CODE	DESCRIPTION
RSHELF-XL (24,36,48,60,72)	Reinforced High Shelf - 23" (584 mm) high stainless steel backsplash with broiler mounting brackets for Salamander/Cheesemelter.
STUB10-XL (12,24,36,48,60,72)	10" Stainless steel stub riser. Available for 12", 24", 36", 48", 60", and 72" ranges.
OVNRACK-XL(20,26) RKGUIDE-XL	1 extra oven rack with standard ovens. 1 pair of rack guides (set of 2).
CASTERS-RR4 CASTERS-RR8 CASTERS-ADJRR4	Set of four (4) standard casters. Set of eight (8) standard casters. Set of four (4) adjustable casters. Two (2) sets required for 48", 60", and 72" ranges.
RCTWLBR-(24,36,48,60,72)	Towel Bar Assembly - Replaces standard bullnose. Available for 24", 36", 48", 60", and 72" ranges.
RCCUTBD-(24,36,48,60,72)	Cutting Board Assembly - Replaces standard bullnose. Available for 24", 36", 48", 60", and 72" ranges. (Includes Sani-TUFF® all-rubber cutting board)
RCCONRL-(24,36,48,60,72)	Condiment Rail Assembly - Replaces standard bullnose. Available for 24", 36", 48", 60", and 72" ranges. (Does not include condiment pans)
SHIELD-FRYRH SHIELD-FRYLH	Fryer Splash Shield - Right hand or left hand side. Protects range top against grease splatter from adjacent fryer.
VFLANGED-FEET/4	Set of four (4) flanged feet. Two (2) sets required for 48", 60", and 72" ranges.
CURBMNT-XL4	Curb mounting kit. Two (2) sets required for 48", 60", and 72" ranges.

INSTALLATION

UNPACKING

This range was inspected before leaving the factory. The transportation company assumes full responsibility for safe delivery upon acceptance of the shipment. Immediately after unpacking, check for possible shipping damage. If the range is found to be damaged, save the packaging material and contact the carrier immediately.

Remove all shipping bands, blocking, and packaging. Remove the high shelf, and backsplash assembly.

Before installing, verify that the electrical service agrees with the specifications on the rating plate located behind the kick panel on the left side. If the supply and equipment requirements do not agree, contact your dealer or Vulcan-Hart immediately.

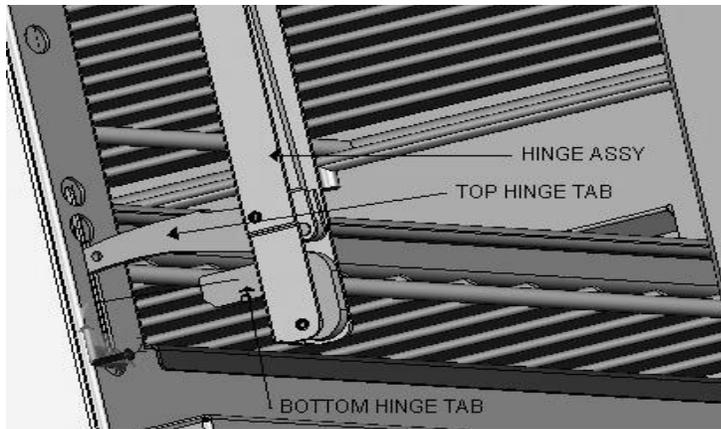
If it is required to remove the door and install it for access through a kitchen door, follow the instructions below.

Door removal

1. Open door.
2. Grasp door firmly at both sides.
3. Lift door upward and pull it out so bottom hinge tab disengages.
* This may be easier to accomplish one side at a time.
4. Close door almost shut and lower slightly to disengage top hinge tab.
5. Pull door outward.

Door installation

1. Grasp door firmly at both sides.
2. Starting with either LH or RH side top hinge tab, angle door and slide top hinge tab into opening between hinge stop roller and hinge stop pin.
3. Lift door up (compress door hinge as if opening the door) and position bottom tab downward about 30 degrees down from horizontal.
4. Push door inward, inserting downward angled bottom hinge tab into opening just above hinge stop pin.
* Bottom hinge tab must enter chassis at downward angle to engage.
5. Bottom hinge tab should engage on hinge stop pin.
6. Open door and pull door outward until bottom hinge tab locks on hinge stop pin.
7. Repeat above steps for opposite side.
8. Open and close door to make sure door hinges are locked in place and door operates smoothly.



LOCATION

The installation location must allow adequate clearance for servicing and proper operation. A minimum front clearance of 40" (1016 mm) is required. Side and rear clearance varies based on range top and adjacent materials of construction:

Clearance Requirements

	Combustible	Non-Combustible
Side – French Plate, Griddle	1"	0"
Side – Hot Top	6"	0"
Rear	0"	0"

Combustible Material includes materials made of or surfaced with wood, compressed paper, plant fibers, or other materials that are capable of being ignited and burned. Such material shall be considered combustible even though flame-proofed, fire-retardant treated, or plastered. [definition courtesy ANSI]

INSTALLATION CODES AND STANDARDS

Your Vulcan range must be installed in accordance with state and local codes, or in the absence of local codes, with National Electrical Code ANSI/NFPA-70 (latest edition) available from The National Fire Protection Association, Batterymarch Park, Quincy, MA 02269. In Canada refer to Canadian electrical code C22.1 Part 1 (latest edition).

ASSEMBLY

Leg/Caster Assembly

The range is shipped fully assembled, except for the legs. The range is provided with 6"(152 mm) adjustable stainless steel legs (hardware included), packaged in a box located inside of the oven. A set of 6"(152 mm) casters or 6" adjustable casters are available as an optional field installable accessories.

RANGE SERIES	LEGS TO INSTALL	CASTERS TO INSTALL
EV12	4	4
EV24	4	4
EV36	4	4
EV48	8	8
EV60	8	8
EV72	8	8

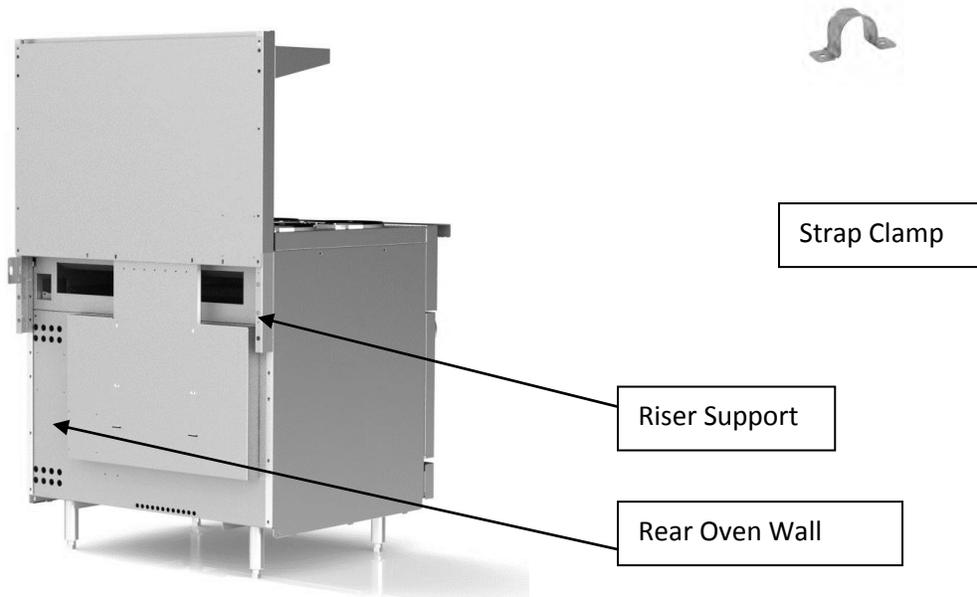
Installation of Legs/Casters:

1. Carefully tip or lift range to access bottom for leg installation.
2. Align holes in leg/caster mounting plate with pre-drilled holes in bottom of range located in each of the four corners.
3. Attach mounting plate to bottom of range using four $\frac{1}{4}$ - 20 x $\frac{5}{8}$ self tapping screws (provided). If casters are being installed, the locking casters should be mounted on the front.
4. After all legs/casters have been installed, carefully return the range to its upright position.

(For additional leg information, see Leveling section of this manual).

A permanently connected appliance mounted on casters and intended to be secured to the building structure should adhere to the following:

- a. Adequate means must be provided to limit the movement of the appliance without depending on or transmitting stress to the electrical conduit;
- b. The location(s) where restraining means are to be attached to the appliance needs to be on the outside rear parts of the oven chassis frame of the Range. Attachment points are available on the riser supports, including thru holes and tapping holes for #10-24 screws. Strap clamps are also optional and included with caster accessory kits for attachment to the rear oven wall (screws not provided).
- c. The appliance should be installed using a flexible conduit.



If the range is installed on casters and is moved for any reason, it is recommended that the range be re-leveled front to back and side to side for even baking.

ELECTRICAL CONNECTIONS

⚠ WARNING ELECTRICAL AND GROUNDING CONNECTIONS MUST COMPLY WITH THE APPLICABLE PORTIONS OF THE NATIONAL ELECTRICAL CODE AND/OR OTHER LOCAL ELECTRICAL CODES.

⚠ WARNING DISCONNECT ELECTRICAL POWER SUPPLY AND PLACE A TAG AT THE DISCONNECT SWITCH TO INDICATE THAT YOU ARE WORKING ON THE CIRCUIT.

Position the range in its final location. Bring conduit containing the proper supply wire to the range through the knockout located on the bottom of the range. Select the size and type of field wire in accordance with the National Electrical Code suitable for carrying the equipment's rated amps and voltage. Use field wires suitable for 75°C on units carrying more than 80 amps.

NOTICE If you have purchased an EV48, EV60 OR EV72 model, it will have two (2) electrical connections. The left and the right portions of the range are supplied with individual branch circuits, the connection points are found under each oven or in the right hand side control panel.

NOTICE THE 48, 60 AND 72 INCH UNITS HAVE MORE THAN ONE SOURCE OF ELECTRICAL SUPPLY. EACH SOURCE MUST BE CONNECTED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (LATEST EDITION) OR OTHER LOCAL CODES.

Connect supply leads to field terminal block and green grounding lead to the labeled ground lug. The supply wire should be anchored through the access hole with a bulkhead fitting.

Ranges ship wired for 3-phase service but may be changed to 1-phase, in the field. Refer to the wiring diagram and schematic decal attached to the range for necessary alterations.

LEVELING

Place a carpenter's level on top of the range and level the range front-to-back and side-to-side by turning the adjustable feet.

ACCESSORY BULLNOSE INSTALLATION

- 1.) Remove screws holding the switch cover in place and allow it to pivot down out of the way.
- 2.) Remove screws, from the front, holding the Bullnose in place.
- 3.) Slide standard Bullnose up to remove it from the range.
- 4.) Slide accessory back into the gap the standard Bullnose was removed from and align with the side of range for fit.
- 5.) Start screw at one end of the Range, do not tighten completely.
- 6.) Going across the width of the Range install the next screw, as shown in Figure 2, set the alignment and tighten screw completely.
- 7.) Install the remaining screws and tighten all screws completely.

Cutting Board
(Accessory)

Condiment Rail
(Accessory)

Towel Bar
(Accessory)

Standard
Bullnose



Figure 1

Note: Align the end of
the Bullnose with the
Range for fit.

Install Screws, #10-24 x
½ Phillips Head, in slots
on Bullnose as noted.

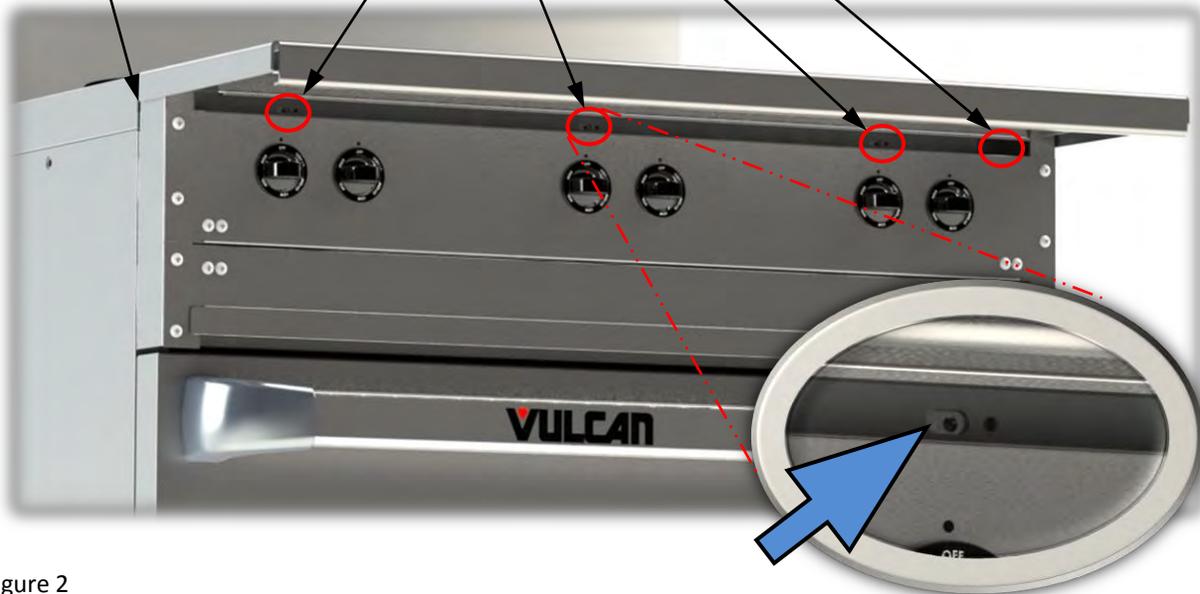
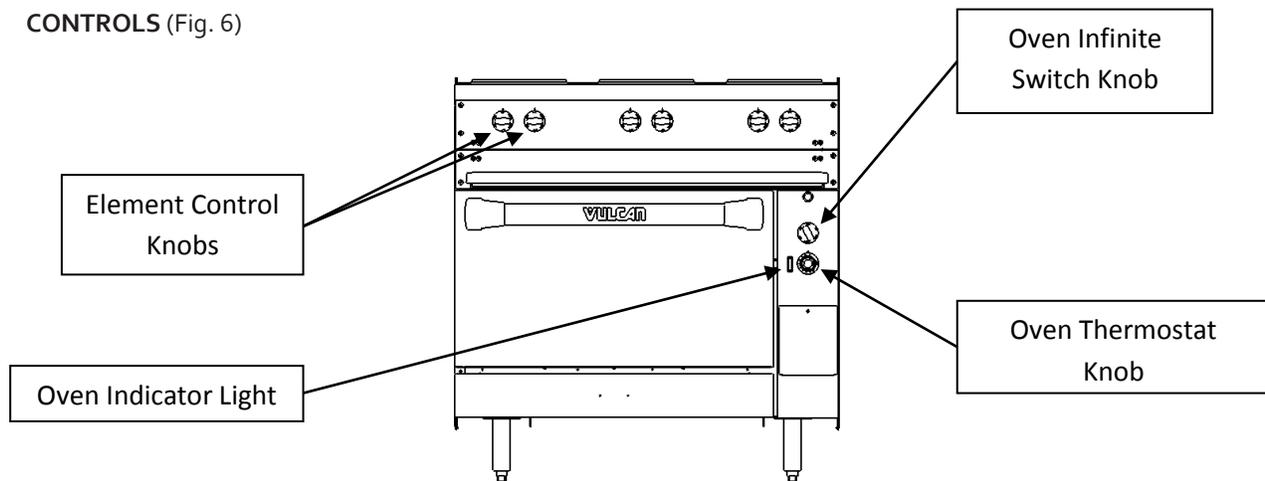


Figure 2

OPERATION

⚠ WARNING THE RANGE AND ITS PARTS ARE HOT. BE VERY CAREFUL WHEN OPERATING, CLEANING OR SERVICING THE RANGE.

CONTROLS (Fig. 6)



Model EV36 Shown

Fig. 6

- Element Controls — Infinite load switches that control and maintain heat to the surface plates. The controls are arranged in pairs; the left knob controls the front plate and the right knob controls the rear plate. NOTE: On 480 volt units, French plates are controlled with a 3-heat switch (HIGH = 2000 watts, MED = 1000 watts, LOW = 500 watts).
- Hot Top Switch — (Not shown.) A thermostat (1-10) controls and maintains heat to the top section. Select desired heat level, (1 is minimum, 10 is maximum).
- Griddle Thermostat — (Not shown.) Regulates the amount of heat needed to maintain the set temperature. Each 12" (305 mm) section of the griddle has its own thermostat with a temperature range of 200°F (93°C) to 550°F (288°C).
- Griddle Indicator Light — (Not shown.) Will be lit until the selected temperature is reached or when it is being maintained.
- Oven Thermostat — Regulates the amount of heat needed to control and maintain oven temperature around the desired set temperature. The temperature range is from 200°F (93°C) to 550°F (288°C). Turn dial counterclockwise to increase temperature and clockwise to decrease temperature.
- Infinite Switch for Oven — Provides control for top browning element. Adjust as needed for the amount of top heat required in order to brown product as desired. NOTE: Infinite switch not Top Heating Element available on 480 volt units. This position on the panel will be filled with a panel plug.
- Oven Indicator Light — Will be lit until the selected temperature is reached or when it is being maintained.

BEFORE FIRST USE

Cleaning

Clean the range and all accessories with water and a mild detergent. Rinse thoroughly and wipe dry with a soft clean cloth.

Griddle Seasoning

Before leaving the factory the griddle is coated with vegetable oil as a rust inhibitor. Remove this film when the griddle plate is being cleaned prior to its first cooking use. Heat the griddle to 200-300°F to loosen and melt the coating, then clean the surface with a non-corrosive, grease dissolving commercial cleaner, following the manufacturer's directions. Rinse thoroughly and wipe dry with a soft clean cloth.

A new griddle surface must be seasoned. The metal surface of the griddle is porous. Food tends to get trapped in these pores and stick; therefore, it is important to "season" or "fill up" these pores with cooking oil before cooking. Seasoning gives the surface a slick, hard finish from which the food will release easily.

To season, heat griddle top section at a low setting. Pour one ounce of cooking oil per square foot of surface over the griddle top section. With an insulated cloth, spread the oil over the entire griddle surface to create a thin film. Wipe off any excess oil with an insulated cloth.

Repeat this procedure 2 to 3 times until the griddle has a slick surface.

FRENCH PLATES

French plates are most efficient when used with utensils having a maximum inside diameter of 10" (254) or a minimum inside diameter of 9" (229). Stock pots of 9, 12 and 16 qt. capacities are recommended for bulk cooking. (Fig. 7)

NOTICE It is important that the utensil used has a flat bottom that sits uniformly on the surface of the plate. Utensils with curved bottoms (either through design or warped from use) will have poor contact and therefore poor heat transfer. This will result in poor cooking performance.

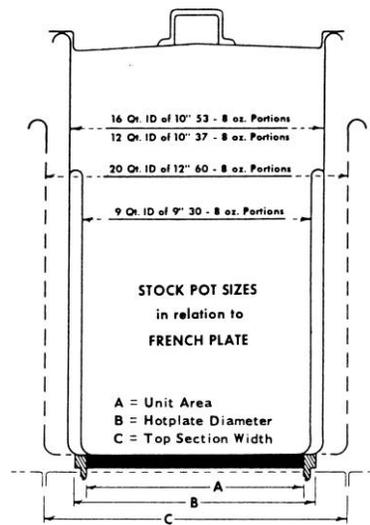


Fig. 7

The French (solid surface) Plates are rated for 2000 Watts and are controlled by an infinite heat switch. A French (solid surface) Plate will reach cooking temperature from room temperature in 5 to 7 minutes at a HI switch setting.

Each control knob is marked **HI**, **MED**, **LO**, **MED-LO**, and **VERY-LO**. The **HI** setting is full heat. Use the **HI** setting to start cooking quickly and to bring water to a boil.

Some DO'S and DO NOT'S of Surface Cooking

DO use utensils to fit the tops (9" to 10" [229 to 254 mm] inside diameter).

DO use flat-bottomed, straight-sided pots and pans.

DO use covers for stock pot work. Water will boil much sooner and much less heat is required for cooking in a covered container. Less water may be used, thereby retaining vitamins and minerals in the food.

DO turn off plates a few minutes before cooking is completed to use the heat stored in the plate.

DO NOT allow surface plates to idle unloaded at HI switch settings. The surface plates will reach very high temperatures, and this can cause the casting to warp or dome. Plates idled at a setting of MED-LO and turned to HI when loaded, will perform bulk cooking jobs just as rapidly, without damage to the plates. Damage caused by plates left running unloaded on HI will void the warranty.

HOT TOPS

Hot Tops can make up for the irregularity of stock pots that have an inside diameter of over 10". Pots can overlap from one Hot Top section to another without any loss of heating area.

NOTICE It is important that the utensil used has a flat bottom that sits uniformly on the surface of the hot top plate. Utensils with curved bottoms (either through design or warped from use) will have poor contact and therefore poor heat transfer. This will result in poor cooking performance.

The Hot Top section is rated for 2500 Watts and are controlled by snap action thermostatic controller, with knob indicator marks from 0 to 10 (with 10 being the highest temperature setting). A Hot Top section will reach cooking temperature from room temperature in 15 to 20 minutes at a **10** thermostat setting.

Some DO'S of Hot Top Cooking

DO use flat-bottomed, straight-sided pots and pans.

DO use covers for stock pot work. Water will boil much sooner and much less heat is required for cooking in a covered container. Less water may be used, thereby retaining vitamins and minerals in the food.

GRIDDLE

See **BEFORE FIRST USE** in this manual for griddle seasoning procedure.

NOTICE

This griddle plate is steel, but the surface is relatively soft and can be scored or dented by the careless use of a spatula or scraper. Be careful not to dent, scratch, or gouge the plate surface. Do not try to knock off loose food that may be on the spatula by tapping the corner edge of the spatula on the griddle surface.

Griddles are supplied with one 3400 watt heating element per 12" of griddle surface. Each heating element is individually controlled by a thermostat with a range of 200°F to 550°F (93°C to 288°C).

OVEN**NOTICE**

Never cover the oven deck or rack with aluminum foil. The oven will not operate properly and the range may be damaged.

Model EV24S, EV36S and EV48S ranges have a single oven; Model EV48SS, EV60SS AND EV72SS ranges have two separate ovens. Each oven is equipped with top and bottom heating elements. The top element has an infinite heat switch for browning. **THIS IS NOT A BROILER ELEMENT.** (infinite switch is not available on the 480 volt range for the top element)

The oven has an input of 5000 W., 3750 W. for the bottom element and 1250 W. for the top element.

Preheating

Thoroughly preheat the oven by setting the switch and the thermostat to the desired temperature. When the red light goes out, the oven is ready for use. For full loads and delicate baked products, it may be desirable to allow the oven to cycle (red light on and off) a second time before loading.

Baking

Most products can be baked with the top element infinite switch set between **VERY LO** and **LO**. Hard-to-brown products, such as corn bread or biscuits, may require a top switch setting of **MED** to **HI**. Start off by using a **LO** setting on top element and then increase only as needed.

Roasting

Place meat on a rack in an open pan with sides sufficiently high to retain the drippings. Roasting may be done on the oven rack or the deck. For best results, roast at the low temperatures of 200°F (93°C) to 325°F (163°C) recommended by the Department of Agriculture and the American Meat Institute. Most meats may be roasted with the infinite heat switch set at **HI**. If heavy browning on poultry is not desired, the switch should be set between **MED-LO** and **VERY-LO**.

The top oven element is not suitable for broiling, and will not operate independent of the oven thermostat (bottom element).

POWER OUTAGE

If a power outage occurs, the range will automatically shut down. When power is restored, the range will automatically resume normal functions. If the range is left unattended during the power outage, turn all control knobs/switches **OFF**. When power is restored, turn desired control knobs/switches back **ON**. The unit will be

preheated in 5 minutes and normal cooking operations can be resumed.

CLEANING

▲ WARNING DISCONNECT ELECTRICAL POWER SUPPLY BEFORE CLEANING.

DO NOT use Dawn ® dish detergent to clean the exterior or interior components of the range.

DO NOT use scouring powder. It is extremely difficult to remove completely. It can build up accumulations that will damage the range.

DO NOT use cleaning products containing TSC.

Clean all parts of the range and the oven with a soft cloth and warm water and detergent. Rinse thoroughly and wipe dry with a soft clean cloth.

Griddle

Scrape the griddle with an approved scraper after each use. The griddle grease can should be emptied on a routine basis. A weep hole is provided to indicate that the grease can is near full capacity. Failure to empty the grease can will cause it to overflow and may result in damage to the range. Weekly, or more often if necessary, thoroughly clean the griddle surface. You may use a griddle screen or stone with a little grease, rubbing with the grain of the metal while it is still warm, or use water and detergent with a steel brush. The detergent must be thoroughly removed. After each thorough cleaning, the griddle must be re-seasoned (see **BEFORE FIRST USE** in this manual).

Avoid build-up of caked grease under the drip edge and around the outside edges of the griddle.

If the griddle is to be shut down for an extended period, put a heavy coat of grease over the griddle plate.

Oven

Clean oven and oven door daily, especially if fruit pies or tomato sauces were baked, meats roasted, and if there have been spillovers. Failure to clean spills may result in corrosion of metal components.

If the oven liners and decks are heavily soiled, ammonia or oven cleaner may be used to remove spillage of burned on sugar and grease, but must be thoroughly rinsed with water to prevent corrosion.

After processing some foods at low temperatures, odors may linger in the oven. These odors may be cleared by setting the thermostat at 500°F (260°C) and allowing the oven to operate unloaded for 30 to 45 minutes.

MAINTENANCE

⚠ WARNING THE RANGE AND ITS PARTS ARE HOT. BE VERY CAREFUL WHEN OPERATING, CLEANING OR SERVICING THE RANGE.

⚠ WARNING Disconnect power supply and follow lockout / tagout procedures before cleaning and servicing the appliance.

SERVICE AND PARTS INFORMATION

To obtain service and parts information concerning this range, contact the Vulcan-Hart Service Department in your area or Service Department at the address or phone number shown on the front cover of this manual.

ELECTRICAL CONNECTION INFORMATION

Model Configuration	Kilowatts				208 Volt Amps				240 Volt Amps				480 Volt Amps			
	X-Y	Y-Z	Z-X	Single Phase	X	Y	Z	Single Phase	X	Y	Z	Single Phase	X	Y	Z	Single Phase
12 Inch Range																
EV12-2FP	2.0	2.0	0.0	4.0	9.6	17.0	9.6	19.0	8.3	14.0	8.3	17.0	4.2	7.2	4.2	8.3
EV12-1HT				5.0				24.0				21.0				10.4
24 Inch Range w/Standard Oven																
EV24S-4FP	5.0	4.0	4.0	13.0	37.5	37.5	33.3	62.5	32.5	32.5	28.9	54.2	16.3	16.3	14.4	27.1
EV24S-2HT	5.0	5.0	5.0	15.0	41.6	41.6	41.6	72.1	36.1	36.1	36.1	62.5	18.1	18.1	18.1	31.2
36 Inch Range w/Standard Oven																
EV36S-6FP	4.0	8.0	5.0	17.0	37.5	50.0	54.1	81.7	32.5	43.3	46.9	70.8	16.3	21.7	23.5	35.4
EV36S-3HT	5.0	10.0	5.0	20.0	41.6	62.5	62.5	96.2	36.1	54.1	54.1	83.3	18.1	27.1	27.1	41.7
EV36S-2HT2FP	4.0	10.0	5.0	19.0	37.5	58.3	62.5	91.4	32.5	50.5	54.1	79.2	16.3	25.3	27.1	39.6
EV36S-1HT4FP	4.0	9.0	5.0	18.0	37.5	54.1	58.3	86.5	32.5	46.9	50.5	75.0	16.3	23.5	25.3	37.5
EV36S-2FP24G	3.4	7.4	5.0	15.8	35.0	45.0	51.6	76.0	30.3	39.0	44.7	65.8	15.2	19.5	22.4	32.9
EV36S-1HT24G	3.4	8.4	5.0	16.8	35.0	49.1	55.8	80.8	30.3	42.6	48.4	70.0	15.2	21.3	24.2	35.0
EV36S-4FP12G	3.4	8.0	5.0	16.4	35.0	47.5	54.1	78.8	30.3	41.1	46.9	68.3	15.2	20.6	23.3	34.2
EV36S-2HT12G	3.4	10.0	5.0	18.4	35.0	55.8	62.5	88.5	30.3	48.4	54.1	76.7	15.2	24.2	27.1	38.4
EV36S-36G	3.4	6.8	3.4	15.2	35.0	42.5	49.1	73.1	30.3	36.8	42.6	63.3	15.2	18.4	21.3	31.7

Key - FP = French Plates (2 per 12inch section) HT = Hot Top (1 per 12 inch section) G = Griddle (can actually have a 12, 24 or 36 inch Griddle)

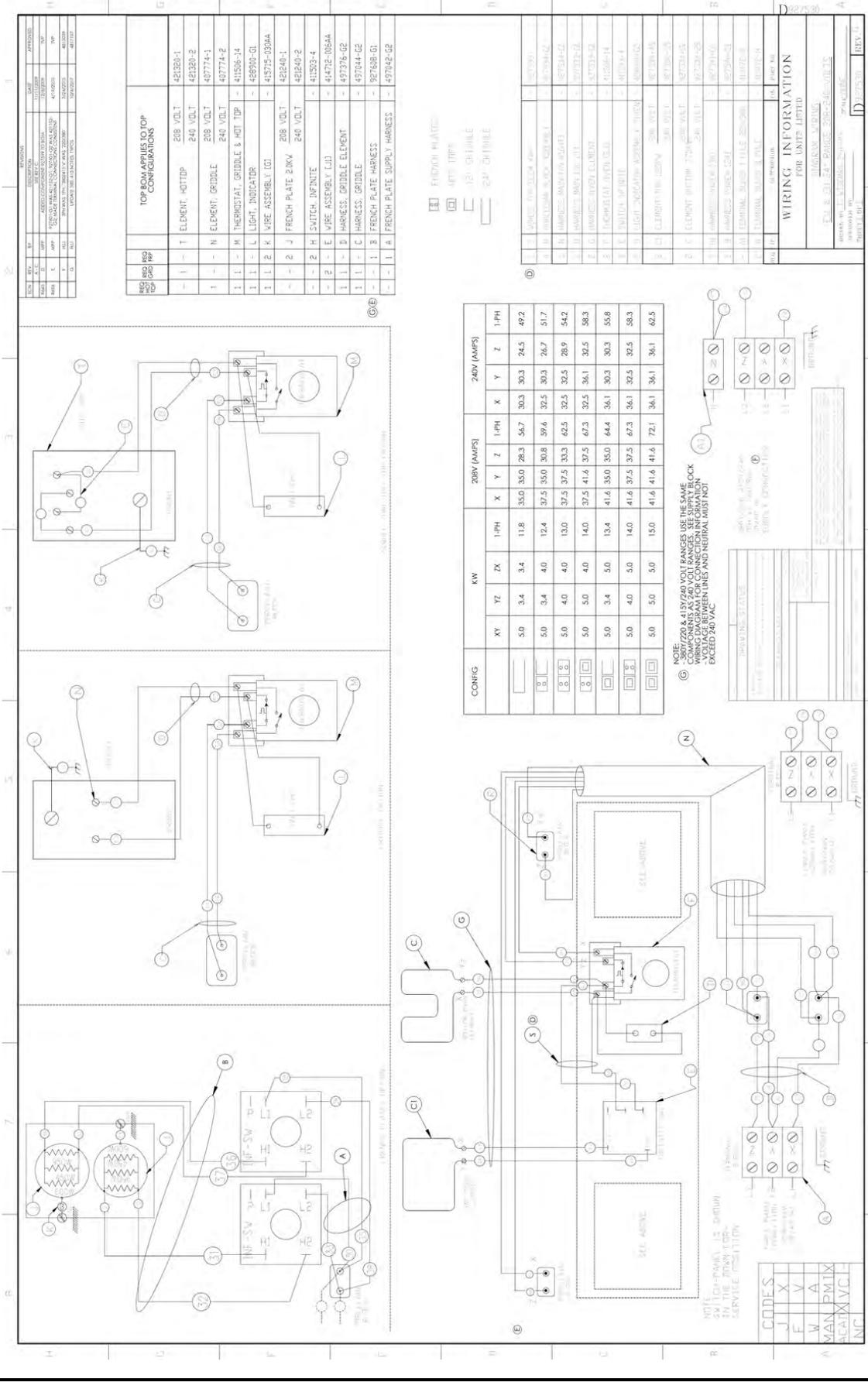
All Griddles less than 36 inches are always positioned on the right hand side of the range.

⚠ WARNING All ranges over 36 inches in width have two electrical connections. Ensure both power supplies have been disconnected before beginning service on the appliance.

DOUBLE RANGES

Ranges ordered over 36 inches wide are constructed as follows:

- EV48S - Consists of an EV36S and an EV12
- EV48SS - Consists of two EV24S
- EV60SS - Consists of an EV24S and an EV36S
- EV72SS - Consists of two EV36S



REV	BY	DATE	DESCRIPTION	APPROVED
1	WSP	10/10/00	WIRING DIAGRAM FOR 240V SYSTEM	WSP
2	WSP	10/10/00	WIRING DIAGRAM FOR 240V SYSTEM	WSP
3	WSP	10/10/00	WIRING DIAGRAM FOR 240V SYSTEM	WSP
4	WSP	10/10/00	WIRING DIAGRAM FOR 240V SYSTEM	WSP
5	WSP	10/10/00	WIRING DIAGRAM FOR 240V SYSTEM	WSP
6	WSP	10/10/00	WIRING DIAGRAM FOR 240V SYSTEM	WSP
7	WSP	10/10/00	WIRING DIAGRAM FOR 240V SYSTEM	WSP
8	WSP	10/10/00	WIRING DIAGRAM FOR 240V SYSTEM	WSP
9	WSP	10/10/00	WIRING DIAGRAM FOR 240V SYSTEM	WSP
10	WSP	10/10/00	WIRING DIAGRAM FOR 240V SYSTEM	WSP

TOP ROW APPLIES TO TOP CONFIGURATIONS		208 VOLT	240 VOLT
1	T	ELEMENT, HOT TOP	42180-1
1	N	ELEMENT, GRIDDLE	42180-2
1	M	ELEMENT, GRIDDLE & HOT TOP	40774-1
1	L	LIGHT, INDICATOR	41586-14
1	K	WIRE ASSEMBLY (G)	42890-G
2	J	FRENCH PLATE, 208V	42184-1
2	H	SWITCH, INFINITE	41503-4
2	E	WIRE ASSEMBLY (L)	44702-08AA
1	D	HARNESS, GRIDDLE ELEMENT	49778-G2
1	C	HARNESS, GRIDDLE	49784-G2
1	B	FRENCH PLATE HARNESS	92768-G1
1	A	FRENCH PLATE, SUPPLY HARNESS	97742-G2

- ① FRENCH PLATE
- ② HOT TOP
- ③ CHINALE
- ④ CHINALE

CONFIG	KW		208V (AMPS)			240V (AMPS)						
	XY	YZ	1-PH	X	Y	Z	1-PH	X	Y	Z		
①	5.0	3.4	3.4	11.8	35.0	35.0	28.3	5.67	30.3	30.3	24.5	49.2
②	5.0	3.4	4.0	12.4	37.5	35.0	30.8	39.6	32.5	30.3	26.7	51.7
③	5.0	4.0	4.0	13.0	37.5	37.5	33.3	42.5	32.5	32.5	28.9	54.2
④	5.0	5.0	4.0	14.0	37.5	41.6	37.5	47.3	32.5	36.1	32.5	58.3
⑤	5.0	3.4	5.0	13.4	41.6	35.0	35.0	44.4	36.1	30.3	30.3	55.8
⑥	5.0	4.0	5.0	14.0	41.6	37.5	37.5	47.3	36.1	32.5	32.5	58.3
⑦	5.0	5.0	5.0	15.0	41.6	41.6	41.6	52.1	36.1	36.1	36.1	62.5

NOTE: 208V/220V & 415V/240V RANGES USE THE SAME COMPONENTS AS 240V RANGES. SEE SUPPLY BLOCK FOR WIRING. VOLTAGE BETWEEN LINES AND NEUTRAL MUST NOT EXCEED 240VAC.

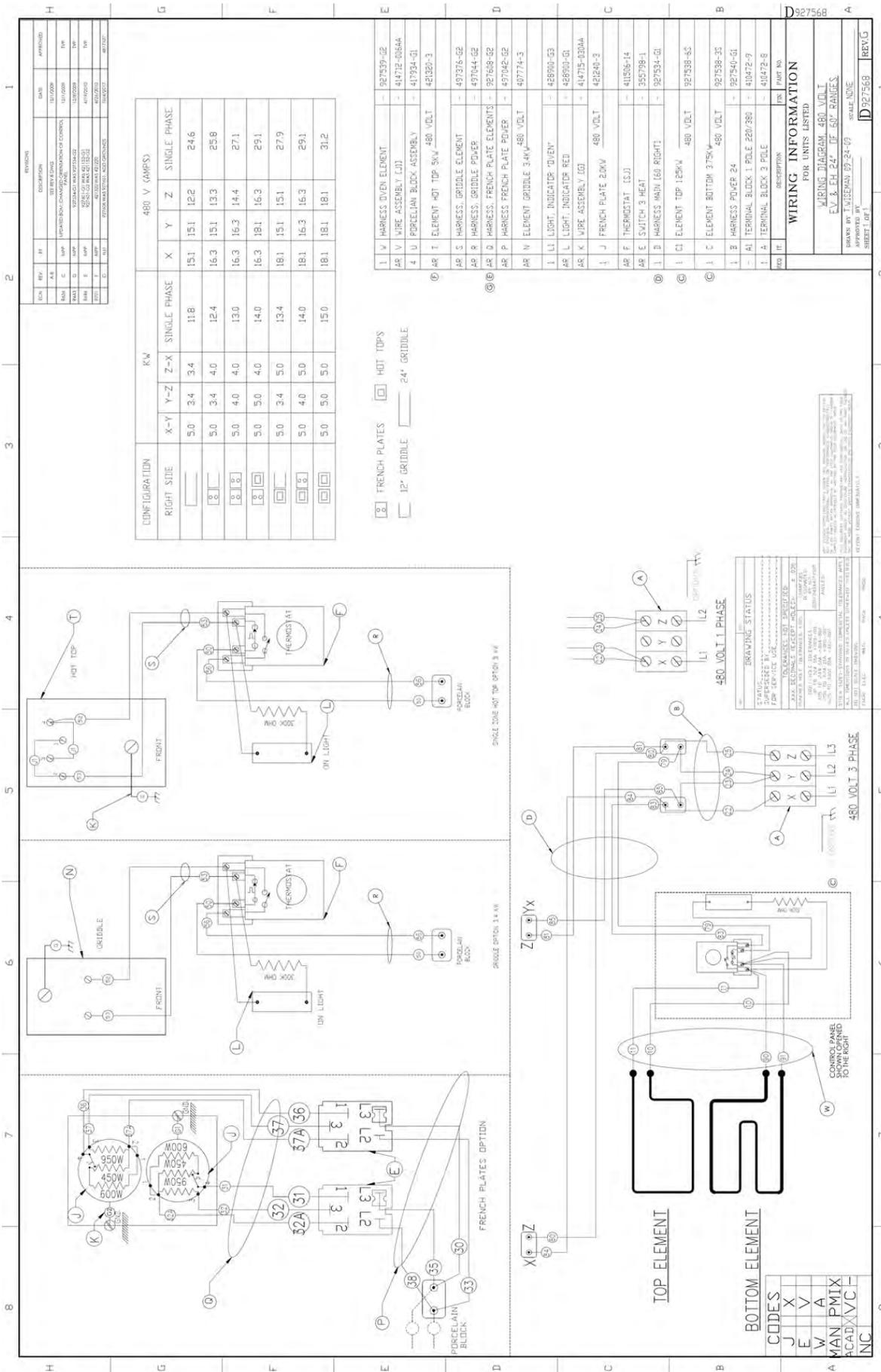


NOTE: SWITCH-PANEL IS SUPPLIED BY THE BUYER FOR SERVICE CONNECTION.

CODES	J	X	V	A	MAN	PMIX	ACAT	VJCL	NC

WIRING INFORMATION FOR UNITS LISTED

UNIT	WIRING INFORMATION
①	FRENCH PLATE
②	HOT TOP
③	CHINALE
④	CHINALE



NOTES



Following you will find instructions on how to shut down your Vulcan cooking equipment for an extended period, and how to safely restart equipment after idle.

Always refer to the procedures as instructed in the Installation & Operation manual for your specific model. Manuals may be found by visiting the Vulcan website and clicking on RESOURCES at the top right of the home page.

Always remember that cooking equipment and its parts are hot. Use care when operating, cleaning or performing maintenance.

For additional product resources, please visit <https://www.vulcanequipment.com/>.

RANGES AND BROILERS

EXTENDED SHUTDOWN – ALL MODELS

1. Disconnect.
 - a. Gas equipment: disconnect from gas, if possible.
 - b. Electric equipment: disconnect from electrical connection/shut off breaker.
2. Once disconnected from gas line: open valves to bleed gas and tighten after five minutes.
3. Oil cast iron parts to prevent rusting.
4. Oil griddle plate and cover with wax paper to prevent rusting.
5. Clean out, empty and wipe down crumb trays and burner box areas of food or debris. Removal of food is imperative to prevent attraction of vermin.
6. Wipe down all surfaces and remove any spills or stuck on food.
7. Empty and wash out grease catch on griddles.
8. If possible, cover the equipment with plastic bag to prevent dust from settling on equipment while not in service.



Model 36S-6B
Shown with optional casters

RESTART FROM EXTENDED SHUTDOWN – ALL MODELS

1. Schedule a qualified gas service technician to be onsite upon restart if kitchen has been down for more than 30 days.
 - a. Check all gas equipment in kitchen for gas leaks.
2. Refer to the instructions in your model's Installation & Operation manual.



EV36S with Hot Top and French Plates Shown

EV Series Electric Ranges

MODELS

EV12

EV24S

EV36S

EV48S

EV48SS

EV60SS

EV72SS

- NOTICE -

This Manual is prepared for the use of trained Vulcan Service Technicians and should not be used by those not properly qualified.

This manual is not intended to be all encompassing. If you have not attended a Vulcan Service School for this product, you should read, in its entirety, the repair procedure you wish to perform to determine if you have the necessary tools, instruments and skills required to perform the procedure. Procedures for which you do not have the necessary tools, instruments and skills should be performed by a trained Vulcan Service Technician.

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GENERAL

INTRODUCTION

This manual is for the Vulcan EV Series Electric Restaurant Ranges. Procedures in this manual will apply to all models unless specified. Pictures and illustrations will be of model EV36S with one French Plate and one 24" Griddle section unless otherwise noted.

All of the information, illustrations and specifications contained in this manual are based on the latest product information available at the time of printing.

INSTALLATION, OPERATION AND MAINTENANCE

For detailed installation, operation and cleaning instructions, refer to F38251 Installation & Operation manual sent with each unit. The manual is also available online at www.vulcanequipment.com.

MODEL CONFIGURATIONS

The EV electric ranges come with a standard oven (S) and are available in several different range top configurations such as: French Plates, Griddles or Hot Tops. A second (S) in the model number indicates an additional range with a standard oven in the configuration (double oven).

- EV12 - 12" wide range section that provides additional range top heating selections of 2 French Plates or 1 Hot Top.
- EV24S - 24" wide electric range with available range top selections.
- EV36S - 36" wide electric range with available range top selections.
- EV48SS - 48" wide electric range, two combined 24" ranges with available range top selections.
- EV60SS - 60" wide electric range, two combined 24" and 36" ranges with available range top selections.
- EV72SS - 72" wide electric range, two combined 36" ranges with available range top selections.

SPECIFICATIONS

AVAILABLE VOLTAGES - 208 OR 240 VOLT - 1 OR 3-PHASE, 480 VOLT - 3-PHASE											
Model Configuration	Nominal AMPS Per Line Wire										
	3-Phase									1-Phase	
	208V			240V			480V				
	X	Y	Z	X	Y	Z	X	Y	Z	208V	240V
12" Range											
EV12-2FP	9.6	17.0	9.6	8.3	14.0	8.3	4.2	7.2	4.2	19.0	17.0
EV12-1HT	---	---	---	---	---	---	---	---	---	24.0	21.0

AVAILABLE VOLTAGES - 208 OR 240 VOLT - 1 OR 3-PHASE, 480 VOLT - 3-PHASE											
Model Configuration	Nominal AMPS Per Line Wire										
	3-Phase									1-Phase	
	208V			240V			480V				
	X	Y	Z	X	Y	Z	X	Y	Z	208V	240V
24" Range, Std Oven											
EV24S-4FP	37.5	37.5	33.3	32.5	32.5	28.9	16.3	16.3	14.4	62.5	54.2
EV24S-2HT	41.6	41.6	41.6	36.1	36.1	36.1	18.1	18.1	18.1	72.1	62.5
36" Range, Std Oven											
EV36S-6FP	37.5	50.0	54.1	32.5	43.3	46.9	16.3	21.7	23.5	81.7	70.8
EV36S-3HT	41.6	62.5	62.5	36.1	54.1	54.1	18.1	27.1	27.1	96.2	83.3
EV36S-2HT2FP	37.5	58.3	62.5	32.5	50.5	54.1	16.3	25.3	27.1	91.4	79.2
EV36S-1HT4FP	37.5	54.1	58.3	32.5	46.9	50.5	16.3	23.5	25.3	86.5	75.0
EV36S-2FP24G	35.0	45.0	51.6	30.3	39.0	44.7	15.2	19.5	22.4	76.0	65.8
EV36S-1HT24G	35.0	49.1	55.8	30.3	42.6	48.4	15.2	21.3	24.2	80.8	70.0
EV36S-4FP12G	35.0	47.5	54.1	30.3	41.1	46.9	15.2	20.6	23.3	78.8	68.3
EV36S-2HT12G	35.0	55.8	62.5	30.3	48.4	54.1	15.2	24.2	27.1	88.5	76.7
EV36S-36G	35.0	42.5	49.1	30.3	36.8	42.6	15.2	18.4	21.3	73.1	63.3
NOTE:											
1. FP = French Plate (2 per 12" section); HT = Hot Top (1 per 12" section); G = Griddle (12", 24" or 36" wide); and S = Standard oven. Additional information on the wiring configurations, kilowatts and amperage values can be found under WIRING DIAGRAMS.											
2. Ranges are factory wired for 3-phase service but are field convertible to 1-phase. Refer to the wiring diagrams in this manual or schematic decals attached to the range for the necessary wiring changes.											
3. All ranges over 36" wide will have two separate electrical connections.											

TOOLS

Standard

- Standard set of hand tools.
- VOM with minimum of NFPA-70E CATIII 600V, UL/CSA/TUV listed. Sensitivity of at least 20,000 ohms per volt and the ability to measure DC micro amps. Meter leads must also be rated at CAT III 600V.

Special

- Temperature tester (thermocouple type) with surface mount probe.
- Clamp on type amp meter with minimum of NFPA-70E CAT III 600V, UL/CSA/TUV listed.
- Two standard 1/4"- 20 x 1" bolts (allen head recommended). The bolts are used to relieve spring tension on the door hinge during door removal and installation.
- Loctite® 246™ for door handle screws.
- A non-permanent type sealer (preferably fast drying) such as nail polish or equivalent for sealing thermostat adjustment screw. If using Loctite® 242™, it begins to set in approximately 10 minutes and fully cures in 24 hours according to manufacturer.

REMOVAL AND REPLACEMENT OF PARTS

FRONT CONTROL PANEL



WARNING Disconnect the electrical power to the machine and follow lockout / tagout procedures.

1. Pull out grease tray (1, Fig. 1) on models with griddle.
2. Remove 4 screws (2, Fig. 1) from control panel.

NOTE: Control panel is hinged and will rotate down.

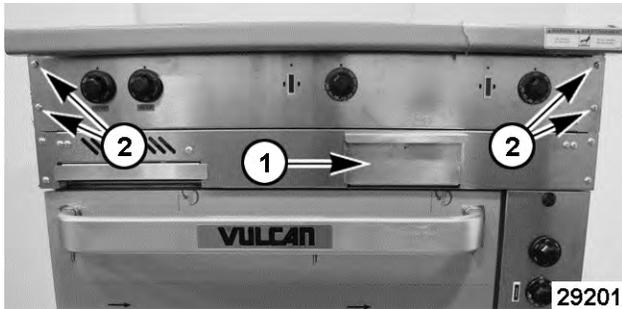


Fig. 1

3. Reverse procedure to install.

OVEN CONTROL PANEL



WARNING Disconnect the electrical power to the machine and follow lockout / tagout procedures.

1. Remove plug from the access hole in the oven control panel.



Fig. 2

2. Remove screw securing oven control panel to frame.
3. Pull the oven control panel outward at the top and lift to remove from frame.
4. Note wire locations and disconnect from the infinite switch (1, Fig. 3) thermostat (2, Fig. 3) and oven light (3, Fig. 3).

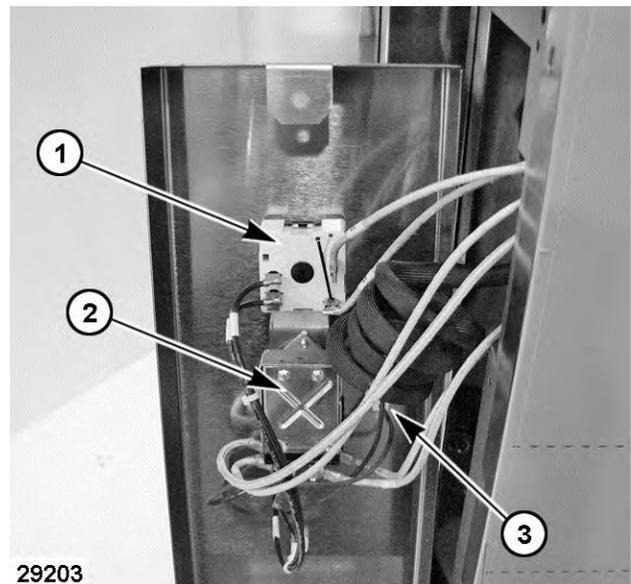


Fig. 3

5. Reverse procedure to install.

KICK PANEL



WARNING Disconnect the electrical power to the machine and follow lockout / tagout procedures.

1. Lift kick panel to disengage from the mounting bracket upper pin and allow panel to rotate down.

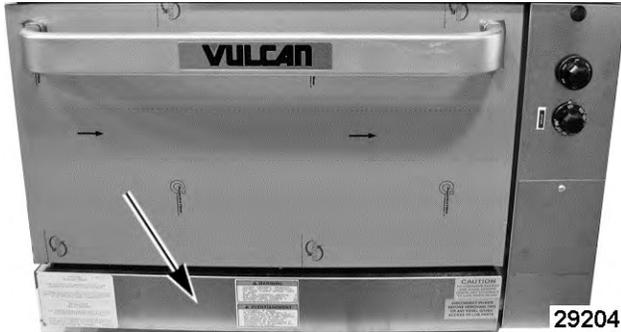


Fig. 4

2. Apply outward pressure on one of the panel mounting ends to disengage from mounting bracket lower pin.
3. Reverse procedure to install.

2. Lift backsplash to disengage the support tabs from mounting slots in frame. Place backsplash to the side until ready to install.
3. Open FRONT CONTROL PANEL.
4. Remove range top as described below:

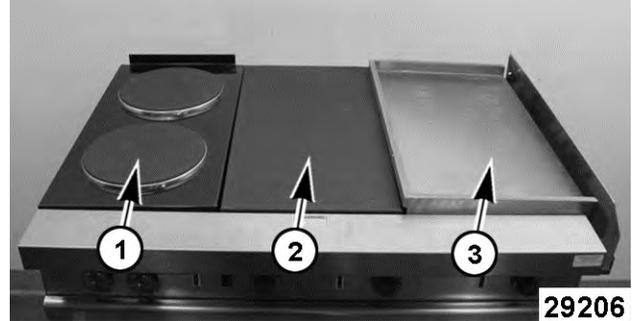


Fig. 6

- A. French Plate (1, Fig. 6) - Remove screws securing French Plate (Fig. 7) to frame.
- B. Hot Top (2, Fig. 6) - Remove screws securing bull nose (1, Fig. 8) to frame then lift bull nose off range.
- C. Griddle (3, Fig. 6) - Remove screws securing bull nose (1, Fig. 8) to frame then lift bull nose off range.

RANGE TOPS



WARNING Disconnect the electrical power to the machine and follow lockout / tagout procedures.

1. Remove screws (2, Fig. 5) securing backsplash (1, Fig. 5) to frame.

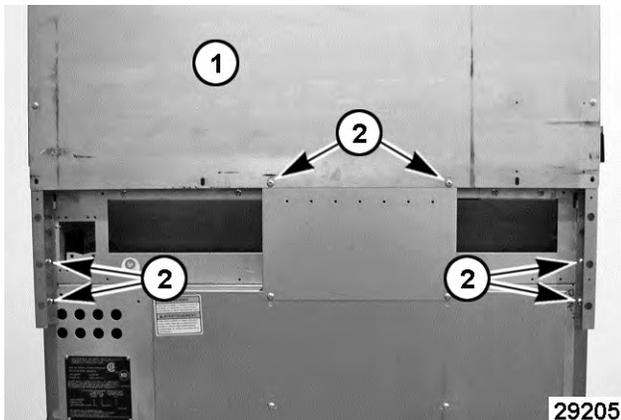


Fig. 5

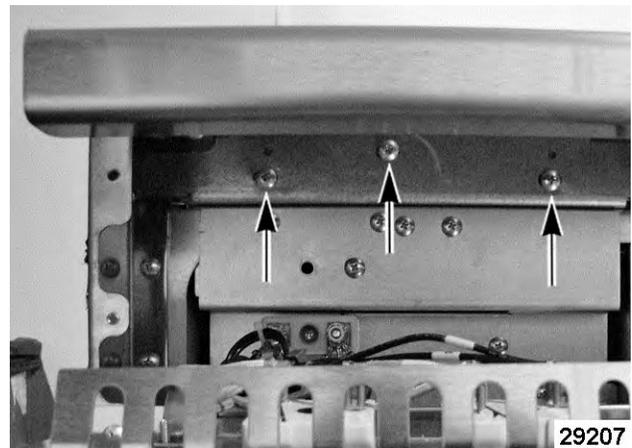


Fig. 7

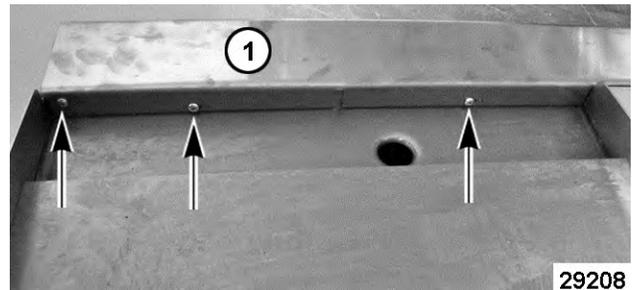


Fig. 8

NOTE: On Hot Tops and griddles, the number of screws securing bull nose to frame depends on bull nose length.

5. Lift the range top being removed and position it to access the electrical connections.
6. Disconnect the electrical connections.
7. Reverse procedure to install.
8. Check range top for proper operation.

OVEN DOOR

Removal

1. Remove OVEN CONTROL PANEL.

NOTE: Removal of the oven control panel is to provide additional space on the right side of door to ease door removal and installation.

2. Lower KICK PANEL.
3. Fully open the oven door.

NOTE: Refer to Fig. 9 and the description table below to identify components.

4. Insert a 1/4"-20 x 1" long bolt (as listed under TOOLS) into each door hinge slot at the top of the spring loaded hinge.

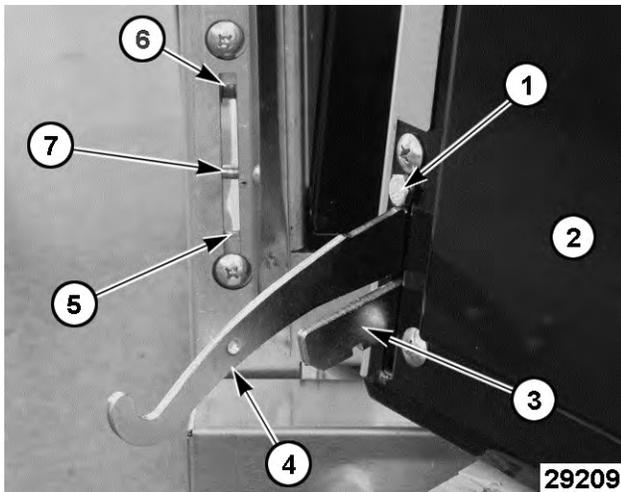


Fig. 9

Item	Description
1	Bolt
2	Door
3	Swivel Hinge
4	Spring-Loaded Hinge
5	Bottom Edge of Door Hinge Stop

Item	Description
6	Door Hinge Stop
7	Bar

5. Close door until it's close to the front control panel. As the door approaches this position, you should notice a decrease in the spring tension on the door.
6. Remove door as follows:
 - A. Hold door at bottom corners then lift the door up and out to disengage the swivel hinge and spring-loaded hinge.
 - B. The notch on swivel hinge must release from bottom edge of the door hinge stop to remove door. As needed, lift up on the swivel hinges using forefinger to aid in releasing.
 - C. The spring-loaded hinge must release from the roller inside the slot on door hinge stop to remove door.
7. If replacing door or spring-loaded hinge, position the door face down. Press down on hinge enough to relieve spring force then remove bolt from door hinge slot.

Installation

1. Compress each spring-loaded hinge enough to insert the bolt into the slot at top of hinge.
2. Hold door at bottom corners while facing the oven cavity. Place knee on the front of door to help balance it as necessary during installation.
 - A. Using index fingers, lift swivel hinges until they touch the spring-loaded hinges and hold in place.
 - B. Tilt the top of door toward the oven so that the swivel hinge is at a slightly downward angle to pass between the bar and bottom edge of door hinge stop.
 - C. Insert door hinges into the slots making sure that the spring-loaded hinges go above the bar to catch on the roller and the swivel hinges go underneath the bar to catch on the bottom edge of door hinge slot.
 - D. Lower the door and position it as necessary to engage the swivel hinge slots with the bottom edge of both door hinge slots. Refer to Fig. 11 below.



Fig. 11

3. Fully open door to check operation. If bottom edge of door rubs the front edge of cavity bottom, then the swivel hinge is not engaged as described.
 - A. To seat the swivel hinge, open door approximately 30° and pull in the same direction on the door handle. The hinge should drop into place.
4. Open door and check operation. If okay, remove bolts and close door. If not okay, remove door and repeat installation procedure.
5. Reinstall oven control panel.
6. Raise kick panel.

OVEN HEATING ELEMENTS



WARNING Disconnect the electrical power to the machine and follow lockout / tagout procedures.

Top Element

NOTE: If the rear of range is accessible, remove rear flue panel to access the top heating element terminals and disconnect lead wires. Otherwise, access is available through the oven cavity as outlined in procedure.

1. Remove oven racks.
2. Loosen element mounting brackets (1, [Fig. 12](#)).
3. Remove element mounting screws (2, [Fig. 12](#)).

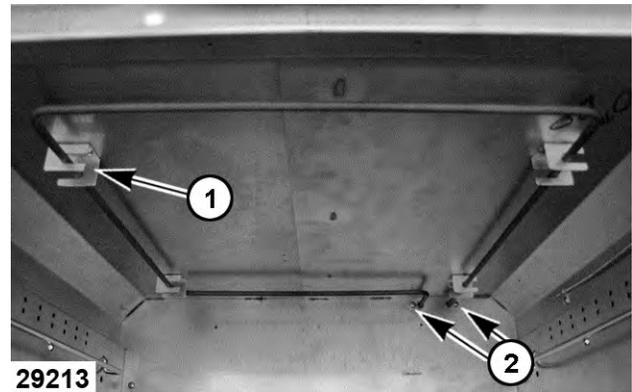


Fig. 12

4. Remove element from brackets.

NOTE: Some brackets may need to be removed if turning them will not completely free the element.
5. If removing element through oven cavity, disconnect lead wires from heating element terminals.
6. Remove element from oven cavity.
7. Reverse procedure to install.

NOTE: Do not force element into holding brackets.
8. Check range for proper operation.

Bottom Element

NOTE: The bottom heating element terminals can only be accessed from the rear of the range.

1. Remove the rear flue panel (1, [Fig. 13](#)).
2. Remove element cover (2, [Fig. 13](#)).

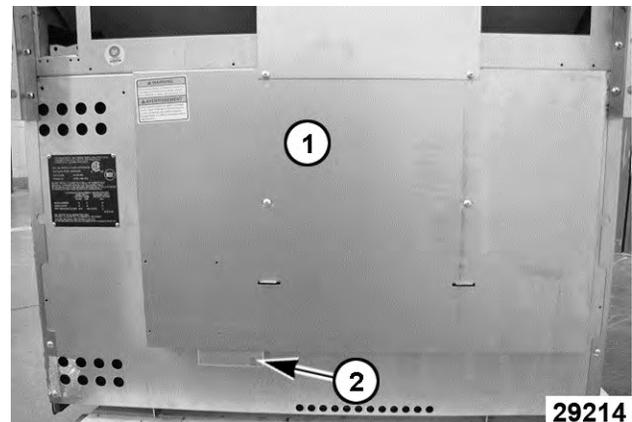


Fig. 13

3. Disconnect lead wires from element terminals (1, [Fig. 14](#)).

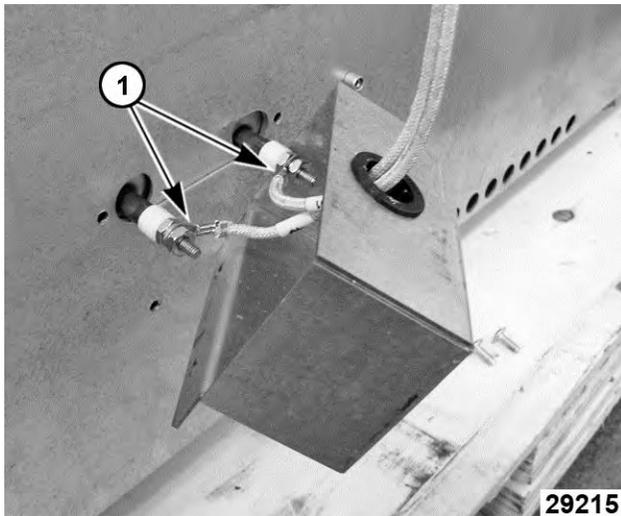


Fig. 14

4. Remove oven racks.
5. Remove oven bottom.
6. Loosen element mounting brackets (1, Fig. 15).
7. Remove element mounting screws (2, Fig. 15).

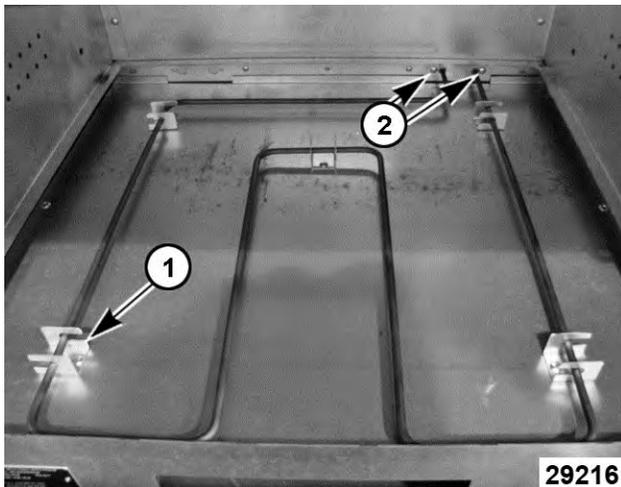


Fig. 15

8. Remove bottom element from mounting brackets and lift out of the oven cavity.
9. Reverse procedure to install.

NOTE: Work mounting brackets around until element is secured without force.

10. Check range for proper operation.

FRENCH PLATE



WARNING Disconnect the electrical power to the machine and follow lockout / tagout procedures.

1. Remove RANGE TOPS.
2. Remove electrical connections noting their locations (1, Fig. 16).

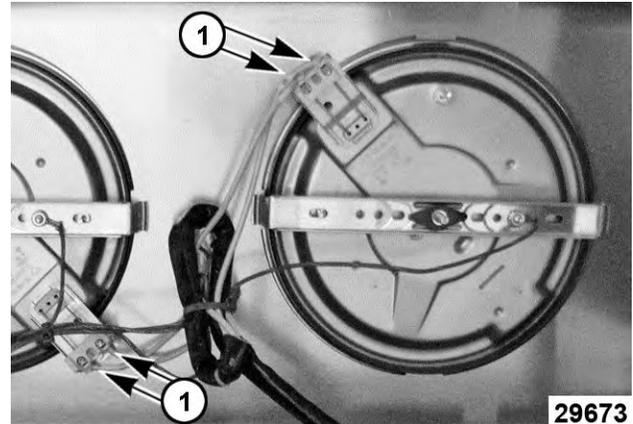


Fig. 16

3. Support the French Plate (1, Fig. 17).
 - A. Remove the nut, spring washer, and locking bracket (2, 3, 4 Fig. 17).

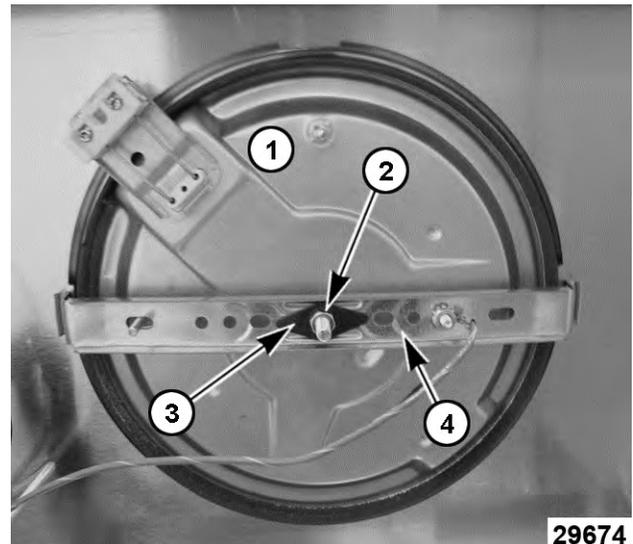


Fig. 17

4. Remove French Plate from range top.
5. Reverse procedure to install.
6. Check range for proper operation.

HOT TOP



⚠ WARNING Disconnect the electrical power to the machine and follow lockout / tagout procedures.

1. Remove RANGE TOPS.
2. Remove mounting nuts (1, Fig. 18) that hold thermostat bulb clamp (2, Fig. 18) to the plate assembly.

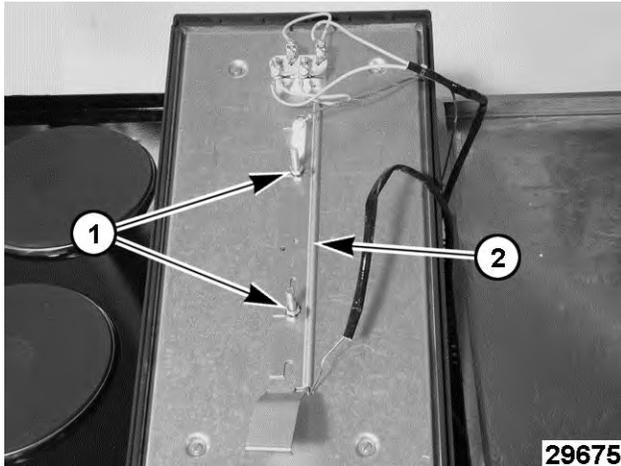


Fig. 18

3. Remove thermostat bulb clamp and thermostat bulb from Hot Top.
4. Remove the inside terminal screws (1, Fig. 19) from electrical connections.

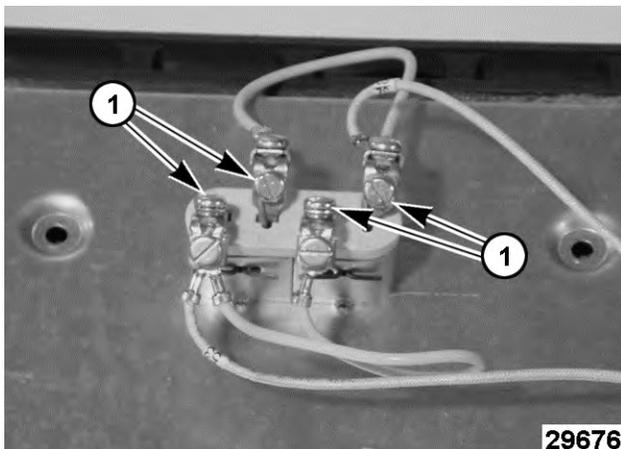


Fig. 19

5. Bend hooks inward slightly (1, Fig. 20) then remove electrical connections.

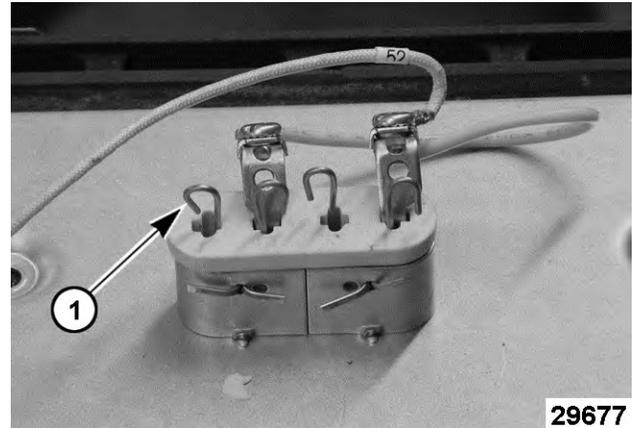


Fig. 20

6. Remove Hot Top.
7. Reverse procedure to install.
8. Check range for proper operation.

GRIDDLE HEATING ELEMENT



⚠ WARNING Disconnect the electrical power to the machine and follow lockout / tagout procedures.

NOTE: 24" wide griddle shown.

1. Remove RANGE TOPS.
2. Remove thermostat bulb from the angle iron weldment (1, Fig. 21) on the bottom of griddle plate.
3. Disconnect element wiring from heating element terminals (2, Fig. 21).

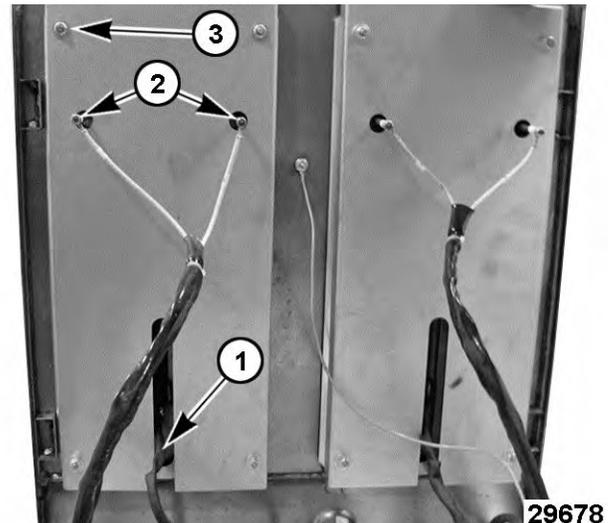


Fig. 21

4. Remove mounting nuts (3, Fig. 21) securing griddle element cover to griddle plate.
5. Remove griddle element cover from griddle plate.
6. Remove mounting nuts (1, Fig. 22) securing the griddle element clamp (2, Fig. 22).

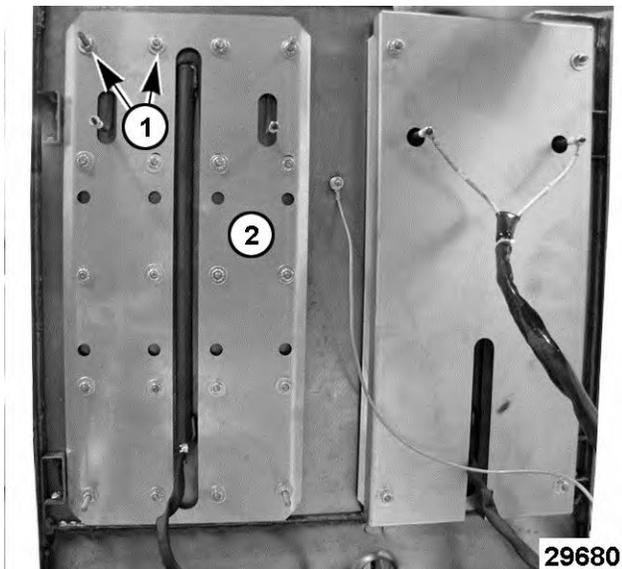


Fig. 22

7. Remove griddle element clamp (2, Fig. 22) from the element and griddle plate.
8. Remove griddle element from griddle plate.
9. Reverse procedure to install.
 - A. Position the element clamp with the downward bend along the sides of the clamp toward the griddle plate.
 - B. Torque the griddle element clamp mounting nuts to 30 to 35 inch-pounds.

NOTE: A torque wrench is the preferred method for tightening the griddle element clamp mounting nuts. However, if a torque wrench is not available, tighten all griddle element clamp mounting nuts finger tight, then 1/2 additional turn with a wrench.

10. Check range for proper operation.

OVEN THERMOSTAT



WARNING Disconnect the electrical power to the machine and follow lockout / tagout procedures.

1. Remove thermostat knob.
2. Remove thermostat mounting screws.



Fig. 23

3. Remove OVEN CONTROL PANEL.
4. Disconnect lead wires from thermostat noting their locations.



Fig. 24

5. Remove thermostat bulb from the oven cavity mounting clips.
 - A. Pull capillary tube and thermostat bulb through the opening in sidewall of the oven cavity.

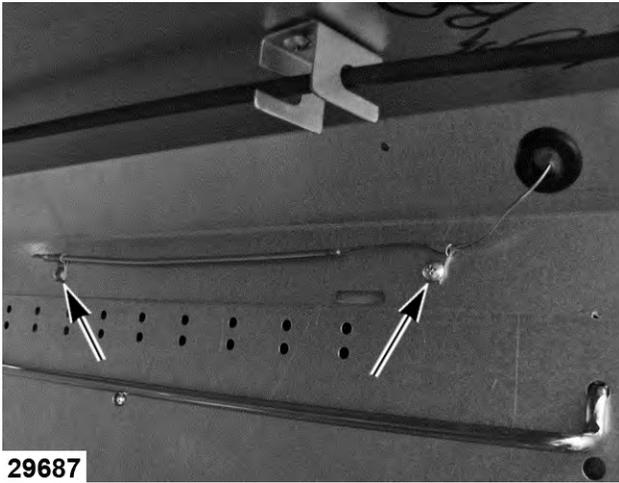


Fig. 25

6. Remove thermostat from oven.
7. Reverse procedure to install.

- NOTICE** When installing, do not bend and kink capillary tube or damage to the control may occur.
8. Perform OVEN THERMOSTAT CALIBRATION.
 9. Check range for proper operation.

GRIDDLE AND HOT TOP THERMOSTATS



WARNING Disconnect the electrical power to the machine and follow lockout / tagout procedures.

1. Remove thermostat knob.
2. Remove thermostat mounting screws.

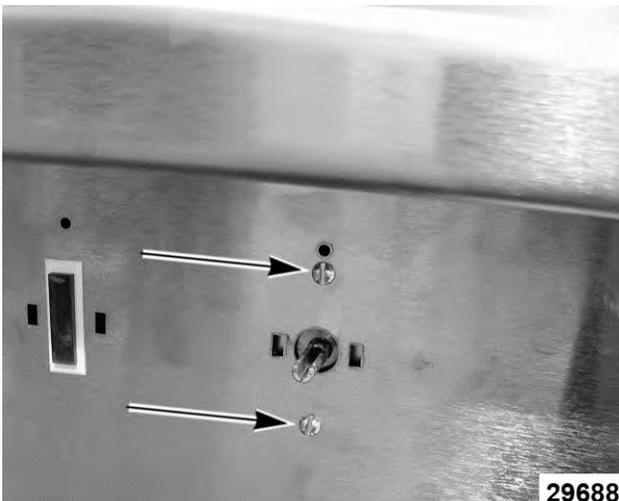


Fig. 26

3. Open FRONT CONTROL PANEL.
4. Disconnect lead wires from thermostat noting their locations.

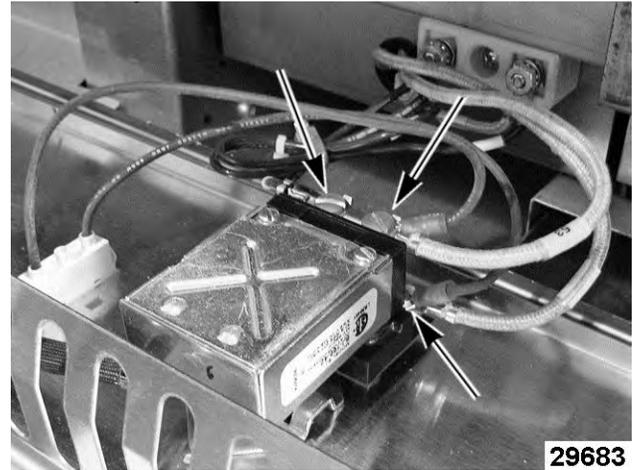


Fig. 27

5. Access the underside of RANGE TOPS. The picture below shows the thermostat bulb and clamp for a Hot Top.
 - A. To access the thermostat bulb and clamp for a griddle, refer to GRIDDLE HEATING ELEMENT.
6. Remove mounting nuts (1, Fig. 28) from thermostat bulb clamp (2, Fig. 28).

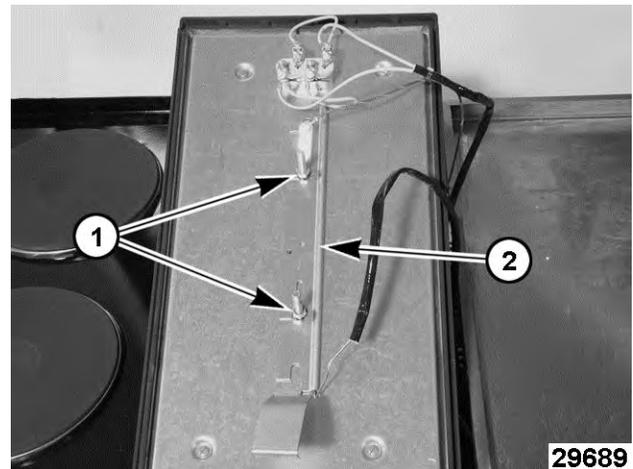


Fig. 28

7. Remove thermostat bulb from clamp.
8. Remove wire tie securing the insulating sheath and capillary tube to frame.
 - A. Remove insulating sheath from capillary tube. Retain for use on replacement thermostat capillary tube.
 - B. Remove thermostat.
9. Reverse procedure to install.

NOTICE When installing, do not bend and kink capillary tube or damage to the control may occur.

NOTE: Install the insulating sheath around replacement thermostat capillary tube. Route capillary tube so it does not contact any electrical components and secure to frame using wire ties.

10. Perform HOT TOP THERMOSTAT CALIBRATION or GRIDDLE THERMOSTAT CALIBRATION.
11. Check range for proper operation.

3 HEAT SWITCH / INFINITE SWITCH



WARNING Disconnect the electrical power to the machine and follow lockout / tagout procedures.

1. Pull off switch knob.
2. Remove washer nut from switch being replaced.

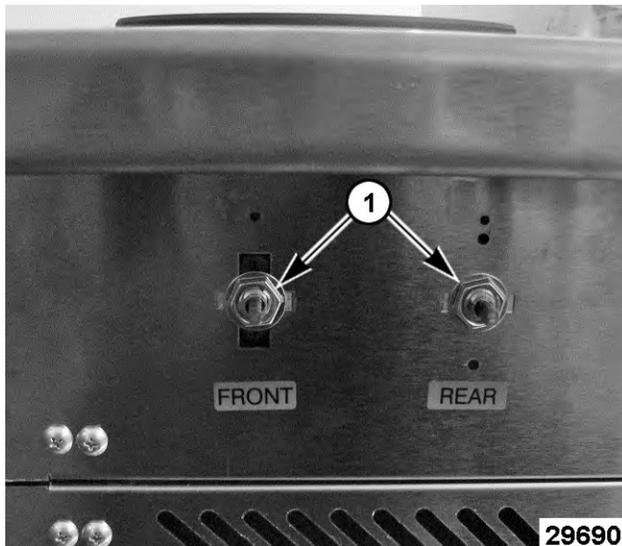


Fig. 29

3. Open FRONT CONTROL PANEL to access the switch for a French Plate.

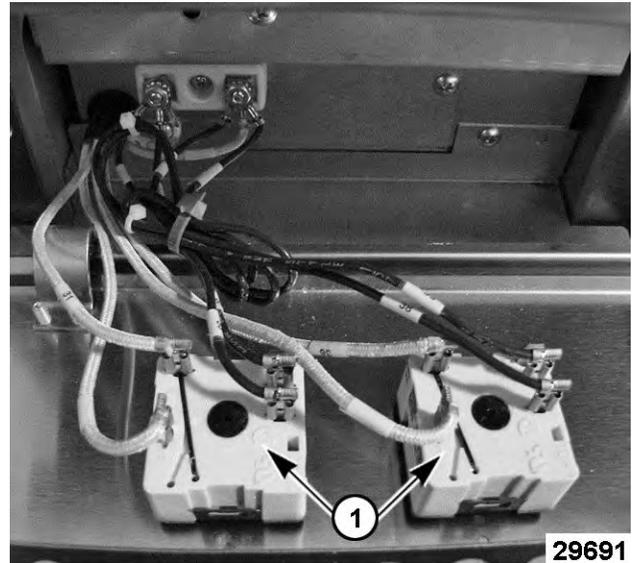


Fig. 30

NOTE: Infinite switches are shown.

4. If replacing switch for the top oven element, remove OVEN CONTROL PANEL.
5. Remove wire connections from switch being replaced. Note wire locations.
6. Remove switch from control panel.
7. Reverse procedure to install.
8. Check range for proper operation.

INDICATOR LIGHTS



WARNING Disconnect the electrical power to the machine and follow lockout / tagout procedures.

1. Lower the FRONT CONTROL PANEL to access the indicator lights for griddles and Hot Tops. Remove the OVEN CONTROL PANEL for ovens.
2. Note wire locations then disconnect:
 - A. Front control panel indicator lights (1, Fig. 31) electrical connections (2, Fig. 31).
 - B. Oven control panel indicator lights (1, Fig. 32) electrical connections (2, Fig. 32).

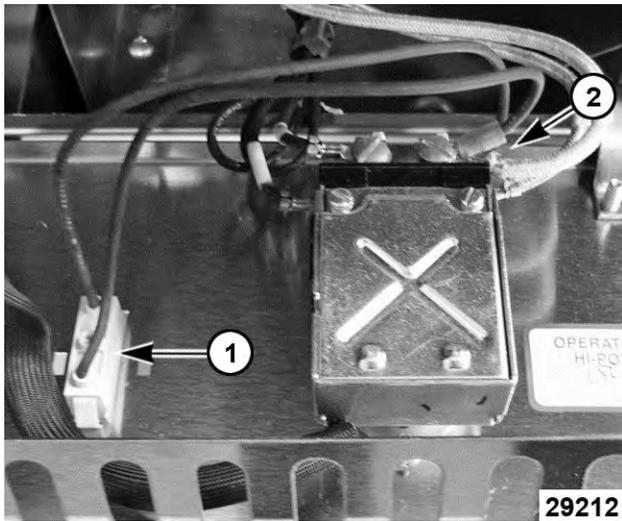


Fig. 31

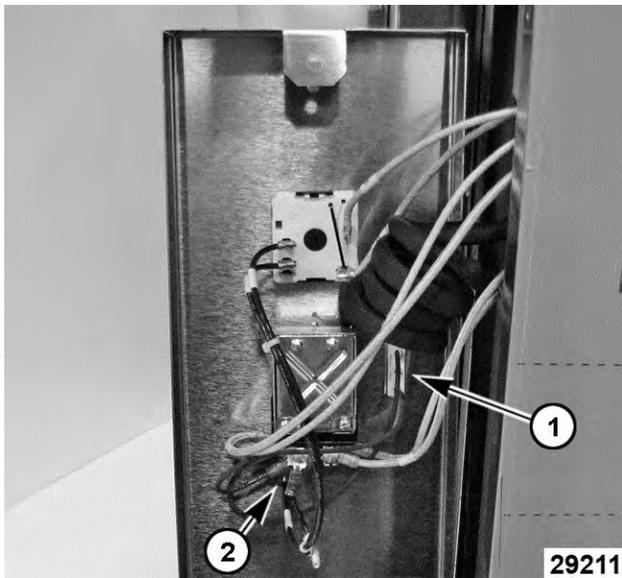


Fig. 32

3. Squeeze the tabs at both ends of the indicator light and push through the control panel.
4. Reverse procedure to install.
5. Check range for proper operation.

SERVICE PROCEDURES AND ADJUSTMENTS

OVEN THERMOSTAT CALIBRATION

1. Place a temperature tester probe in the geometric center of the oven.
2. Set the infinite switch (1, Fig. 33) for the top oven element to OFF during oven thermostat calibration.
3. Set the thermostat (2, Fig. 33) to 350°F.
4. Allow the thermostat to cycle three times.
5. Note the tester reading when the oven indicator light (3, Fig. 33) turns ON and OFF.

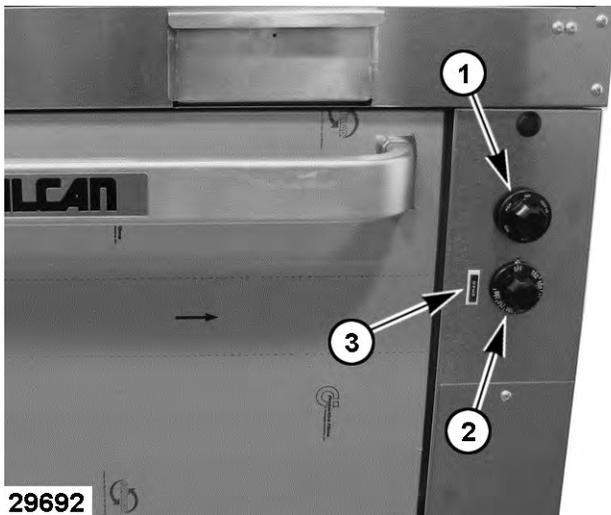


Fig. 33

6. Add these two temperatures together, then divide the sum by 2 to obtain an average temperature.
 - A. If the average temperature is within 25°F of the set temperature, the thermostat is calibrated.
 - B. If the average temperature is not within 25°F of the set temperature:
 - 1) Remove thermostat knob. Maintain thermostat setting during removal.
 - 2) Hold thermostat stem to prevent movement. Insert a flathead screwdriver into thermostat stem (1, Fig. 34) until it reaches the calibration screw.

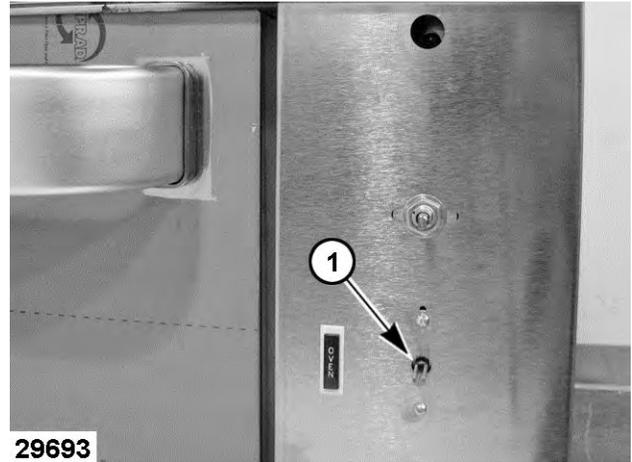


Fig. 34

- 3) Turn adjustment screw clockwise to increase and counterclockwise to decrease temperature.

NOTE: A 1/4 turn equals 35°F change.

7. Replace knob and repeat steps 4 to 6 until average temperature is within 25°F of set temperature.
8. Reseal adjustment screw to prevent movement.
9. If thermostat cannot be calibrated, replace thermostat as outlined under OVEN THERMOSTAT.

GRIDDLE THERMOSTAT CALIBRATION

1. Clean temperature test area on griddle surface then place temperature tester surface mount probe at that location. See table for proper testing locations according to griddle size.

NOTE: This procedure will need to be performed for each testing location on the 24" and 36" griddles.

Griddle Size	Distance(s) From Left Edge of Griddle
12"	6"
24"	6", 18"
36"	6", 18", 30"

NOTE: All readings taken 12" from front of griddle.

2. Set thermostat to a temperature above 300°F.
3. Allow thermostat to cycle three times.

4. Note tester reading when the indicator light turns ON and OFF.
5. Add these two temperatures together then divide the sum by 2 to obtain an average temperature.
 - A. If the average temperature is within 25°F of the set temperature, the thermostat is calibrated.
 - B. If the average temperature is not within 25°F of the set temperature:
 - 1) Remove thermostat knob. Maintain thermostat setting during removal.
 - 2) Hold thermostat stem to prevent movement. Insert a flathead screwdriver into thermostat stem until it reaches the calibration screw.



Fig. 35

- 3) Turn adjustment screw clockwise to increase and counterclockwise to decrease temperature.

NOTE: A 1/4 turn equals 35°F change.

6. Replace knob and repeat steps 3 to 5 until average temperature is within 25°F of set temperature.
7. Reseal adjustment screw to prevent movement.
8. If thermostat cannot be calibrated, replace thermostat as outlined under GRIDDLE AND HOT TOP THERMOSTATS .

HOT TOP THERMOSTAT CALIBRATION

1. Clean temperature test area surface in the center of the Hot Top then place temperature tester surface mount probe at that location.
2. Set thermostat to 350°F.
3. Allow the thermostat to cycle three times.
4. Note the tester reading when the indicator light turns ON and OFF.
5. Add these two temperatures together, then divide the sum by 2 to obtain an average temperature.
 - A. If the average temperature is within 25°F of the set temperature, the thermostat is calibrated.
 - B. If the average temperature is not within 25°F of the set temperature:
 - 1) Remove thermostat knob. Maintain thermostat setting during removal.
 - 2) Hold thermostat stem to prevent movement. Insert a flathead screwdriver into thermostat dial stem until it reaches the calibration screw.



Fig. 36

- 3) Turn adjustment screw clockwise to increase and counterclockwise to decrease temperature.

NOTE: A 1/4 turn equals 35°F change.

6. Replace knob and repeat steps 3 to 5 until average temperature is within 25°F of set temperature.
7. Reseal adjustment screw to prevent movement.
8. If thermostat cannot be calibrated, replace thermostat as outlined under GRIDDLE AND HOT TOP THERMOSTATS.

INFINITE SWITCH TEST (208V/ 240V)



⚠ WARNING Certain procedures in this section require electrical test or measurements while power is applied to the machine. Exercise extreme caution at all times and follow Arc Flash procedures. If test points are not easily accessible, disconnect power and follow Lockout/Tagout procedures, attach test equipment and reapply power to test.

NOTE: Refer to AI4007 in WIRING DIAGRAMS for switch terminal locations.

1. Lower the FRONT CONTROL PANEL to access infinite switch for a French Plate.
 - A. If checking infinite switch for the oven, remove OVEN CONTROL PANEL.
2. Connect a voltmeter to the output terminals H1 and H2.
3. Reconnect power to machine.
4. Turn knob to the desired setting.
5. Compare the percentage of ON time to OFF time.

NOTE: ±7.5% tolerance allowable.

Knob Setting	% on Time	Seconds on	Seconds off
Hi	100	ALL	0
Med.	48	15	15
Low	37	8	14

Knob Setting	% on Time	Seconds on	Seconds off
Med. Low	28	7	24
Very Low	7	3	33

6. If the percentage is not correct, replace the switch as outlined under 3 HEAT SWITCH / INFINITE SWITCH.

3 HEAT SWITCH TEST (480V)



⚠ WARNING Certain procedures in this section require electrical test or measurements while power is applied to the machine. Exercise extreme caution at all times and follow Arc Flash procedures. If test points are not easily accessible, disconnect power and follow Lockout/Tagout procedures, attach test equipment and reapply power to test.

NOTE: Refer to AI4008 in WIRING DIAGRAMS for switch terminal locations.

1. Lower the FRONT CONTROL PANEL to access 3 heat switch for a French Plate.
2. Reconnect power to machine.
3. Check input voltage at L3 and L2 on the switch terminals.
4. Check for the correct output voltage at the output terminals for all knob settings of the switch.

Knob Settings	L3 Input - Output at Terminal(s)	L2 Input - Output at Terminal(s)
High	1 & 3	2
Med	1	2
Low	1	3

5. If the voltages are not correct, replace the switch as outlined under 3 HEAT SWITCH / INFINITE SWITCH.

HEATING ELEMENT TEST



⚠ WARNING Certain procedures in this section require electrical test or measurements while power is applied to the machine. Exercise extreme caution at all times and follow Arc Flash procedures. If test points are not easily accessible, disconnect power and follow Lockout/Tagout procedures, attach test equipment and reapply power to test.

NOTE: 208/240V - The standard oven uses an infinite switch to control the top element for browning and a thermostat to control the bottom element for oven heating. The thermostat supplies power to the infinite switch and must be ON for the top element to heat.

NOTE: 480V only - The standard oven uses a single thermostat to control the top element for browning and the bottom element for oven heating.

1. Set temperature control to the highest setting for the heating element to test:
 - A. Standard oven - top and bottom elements.
 - B. Hot Top element.
 - C. French Plate element.
 - D. Griddle element.
2. Measure voltage at the heating element terminals and verify it against data plate voltage.
 - A. If voltage is *incorrect*, see TRUBLESHOOTING to help determine the possible cause. If voltage is *correct*, check current draw (amps) through the heating element lead wires.

NOTE: Checking current draw is preferred over a resistance check when a clamp on type amp meter is available.
 - B. If current draw is correct then heating element is functioning properly. See HEATING ELEMENT TABLE for proper values. If current draw is *not* correct, turn temperature control OFF and disconnect the electrical supply to the range. On ranges with two ovens, each section will have its own supply power connection.
 - C. Replace heating element for the range as outlined under the appropriate procedure listed below then proceed to step 3:
 - 1) OVEN HEATING ELEMENTS
 - 2) HOT TOP
 - 3) FRENCH PLATE
 - 4) GRIDDLE HEATING ELEMENT
 - D. If unable to check current draw, a resistance check *may* indicate a malfunctioning element.
 - 1) Disconnect electrical supply to the range. On ranges with two ovens, each section will have its own supply power connection.
 - 2) Remove lead wires from the heating element and check resistance (ohms). See HEATING ELEMENT TABLE for proper values.
 - E. If resistance is not correct, replace heating element for the range as outlined under the appropriate procedure listed in step 2C.
3. Check for proper operation.

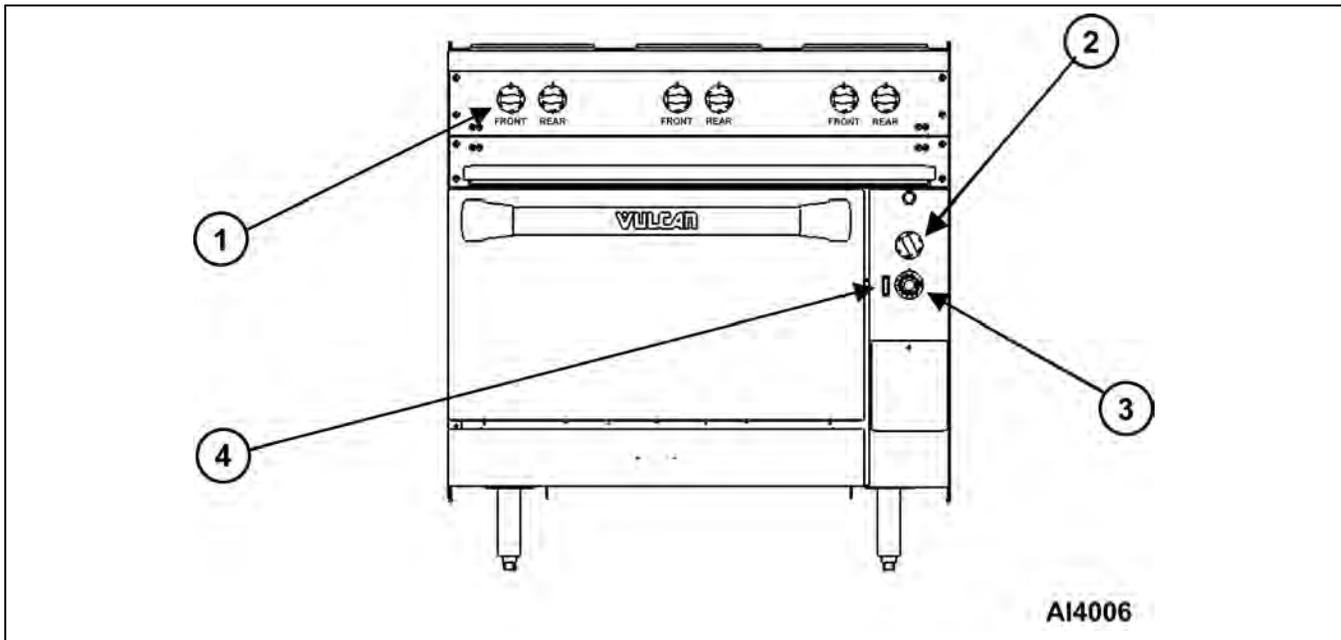
HEATING ELEMENT TABLE				
Voltage	Element	KW per Element	AMPS per Element Lead	OHMS per Element
208	Standard Oven (Top)	1.25	6.0	34.6
	Standard Oven (Bottom)	3.75	18.0	11.5
	Hot Top	5.00	24.0	8.7
	French Plate	2.00	9.6	21.6
	Griddle	3.40	16.3	12.7
240	Standard Oven (Top)	1.25	5.2	46.1
	Standard Oven (Bottom)	3.75	15.6	15.4
	Hot Top	5.00	20.8	11.5
	French Plate	2.00	8.3	28.8
	Griddle	3.40	14.2	16.9
480	Standard Oven (Top)	1.25	2.6	184.3
	Standard Oven (Bottom)	3.75	7.8	61.4
	Hot Top	5.00	10.4	46.1
	French Plate	2.00	4.2	115.2
	Griddle	3.40	7.1	67.8
NOTE:	1. Values in the table are nominal. Tolerance is +5/-10%. 2. Voltage values are @ 60Hz. 3. Resistance values (ohms) are @ 77° F.			

ELECTRICAL OPERATION

COMPONENT FUNCTION

- Thermostat** Regulates temperature of the selected oven, griddle or Hot Top.
- 3 Heat, 4 Position Switch** Controls power to the French Plates on 480V units. Provides approximately 100% of total available power per French Plate section with switch set to HI position, 50% at MED position, 25% at LO position, and 0% at the OFF position. The switch settings are: OFF, 1, 2 and 3.
- Heating Elements** Provides heat for the oven and Hot Top sections.
- Infinite Switch** Controls power to French Plate heaters and the top oven element for browning. Depending on switch setting, provides a range of ON time from 7% to 100%. The switch settings are: HI, MED, LO, MED-LO and VERY-LO. On 480V units, the top oven element along with the bottom oven element are both controlled by the oven thermostat.
- Indicator Lights (Red)** Turns ON when power is being applied to heating elements for the oven, griddle or Hot Top.

COMPONENT LOCATION



EV36-6FP - French Plates Shown

ITEM NO.	DESCRIPTION
1	*Range top control knobs
2	Oven infinite switch knob
3	Oven thermostat knob
4	Oven indicator light

***Range Top Control Knobs** - Available combinations are: French Plates (FP), Hot Tops (HT) and Griddles (G). Hot Tops and Griddles have one control knob per 12" section and include an indicator light to the left of knob.

STANDARD OVEN SEQUENCE OF OPERATION**208/240V**

1. Conditions.
 - A. Range connected to correct supply voltage.
 - B. Power at range terminal block (building circuit breakers ON).
 - C. Oven thermostat OFF (bottom element for heating).
 - D. Oven infinite switch OFF (top element for browning).
 - E. Oven at room temperature.
2. Oven infinite switch turned to desired setting.
3. Thermostat set to desired temperature.
 - A. Indicator light turns ON.
 - B. Power supplied to heating elements.
4. Oven reaches desired set temperature.
 - A. Power is removed from the heating elements and indicator light.
5. Oven temperature drops below set temperature.
 - A. Oven heating resumes and indicator light turns ON.
6. Steps 4 and 5 cycle until the thermostat is turned OFF or power is removed from the range.

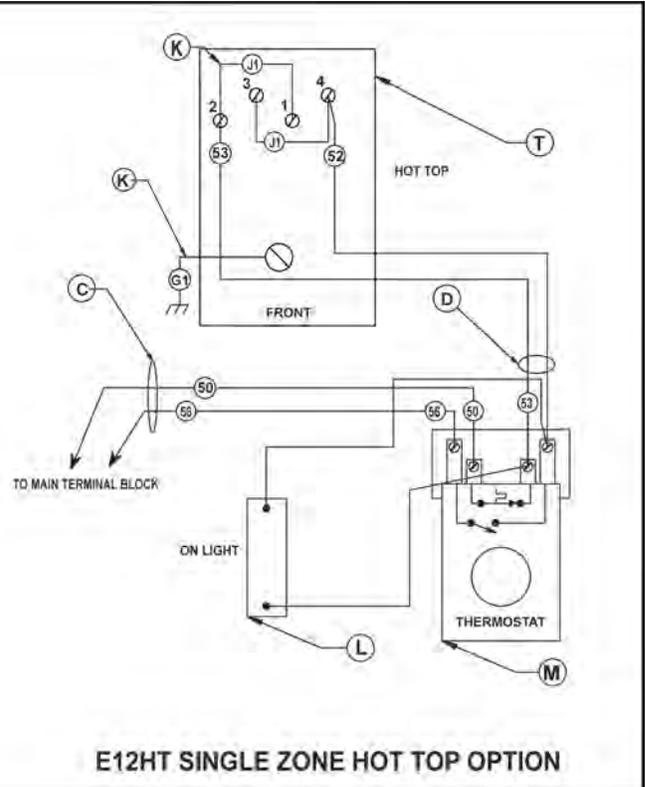
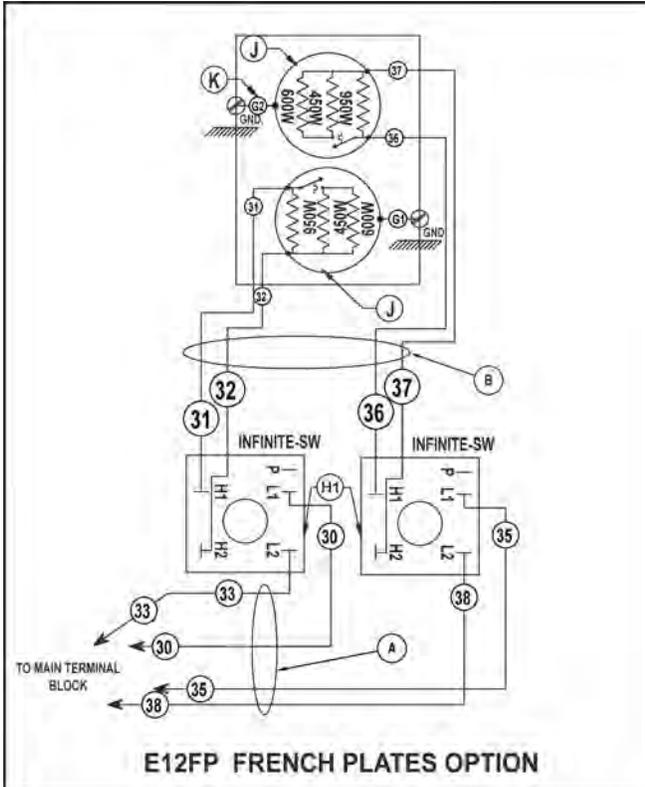
480V

1. Conditions
 - A. Range connected to supply voltage.
 - B. Power at range terminal block (building circuit breakers ON).
 - C. Oven thermostat OFF (controls top & bottom elements for browning & heating).
 - D. Oven at room temperature.
2. Oven thermostat set to desired temperature.
 - A. Indicator light turns ON.
 - B. Power supplied to heating elements.
3. Oven reaches desired set temperature.
 - A. Power is removed from the heating elements and indicator light.
4. Oven temperature drops below set temperature.

- A. Oven heating resumes and indicator light turns ON.
5. Steps 3 and 4 cycle until the thermostat is turned OFF or power is removed from the range.

WIRING DIAGRAMS

EV12 RANGE TOP - 208V & 240V



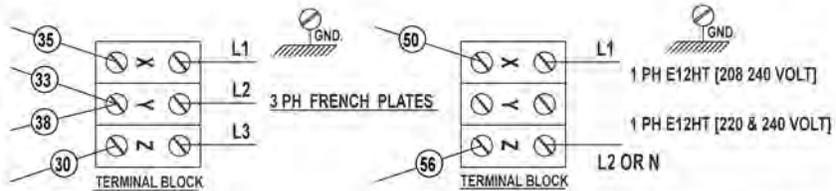
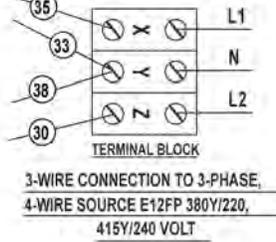
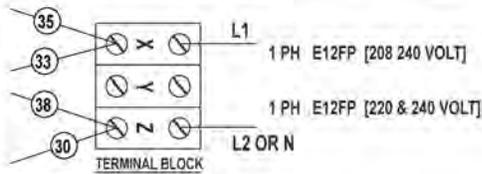
UNIT	TOTAL KW CONN.	LOAD KW PER PHASE 3-PHASE		
		L1-L2	L2-L3	L1-L3
E12HT	5	--	--	--
E12FP	4	2.0	2.0	--

UNIT	NOMINAL AMPS PER LINE							
	3-PHASE		1-PH					
	208V	240V	208	240				
	X	Y	Z	X	Y	Z	A	B
E12HT	-	-	-	-	-	-	24	21
E12FP	9.6	17	9.6	8.3	14	8.3	19	17

UNIT	TOTAL KW CONN.	LOAD KW/PHASE			
		380Y/220		415Y/240	
		L1-N		L2-N	
		E12HT	4.2	5	5.0
E12FP	3.4	4	2.0	2.0	--

UNIT	NOMINAL AMPS PER LINE				
	3-WIRE		2-WIRE		
	380Y/220	220	415Y/240	240	
	L1	L2	L1	L2	
E12HT	-	-	19.3	-	21
E12FP	7.8	7.8	15.6	8.5	17

REQ	REQ.	IT.	DESCRIPTION	FIN.
-	-	R	RESISTOR 300K OHM	-
-	-		208 VOLT	-
-	1	T	ELEMENT HOT TOP 5KW	240 VOLT
-	1	M	THERMOSTAT, HOT TOP	-
-	1	L	LIGHT, INDICATOR	-
-	2	K1	WIRE ASSEMBLY [J1]	-
2	1	K	WIRE ASSEMBLY [G1]	-
			208 VOLT	
2	-	J	FRENCH PLATE EGO 2KW	240 VOLT
2	-	H1	SWITCH, INFINITE	-
-	-	H	SWITCH, 3 HEAT	-
-	1	D	HARNES, GRIDDLE ELEMENT	-
-	1	C	GRIDDLE SUPPLY HARNES	-
-	-	B1	FRENCH PLATE SUPPLY HARNES	-
1	-	B	FRENCH PLATE SUPPLY HARNES	-
1	-	A	FRENCH PLATE SUPPLY HARNES	-

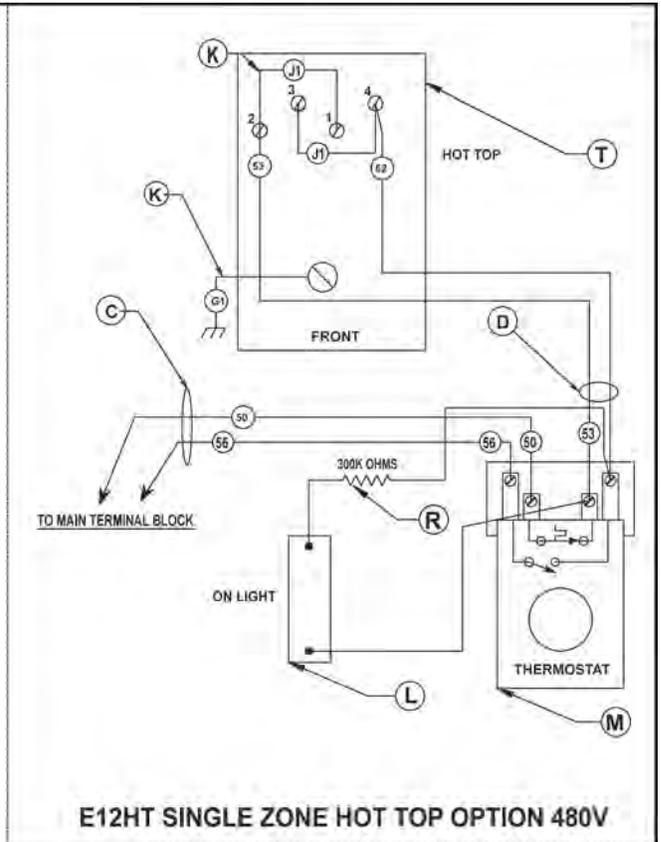
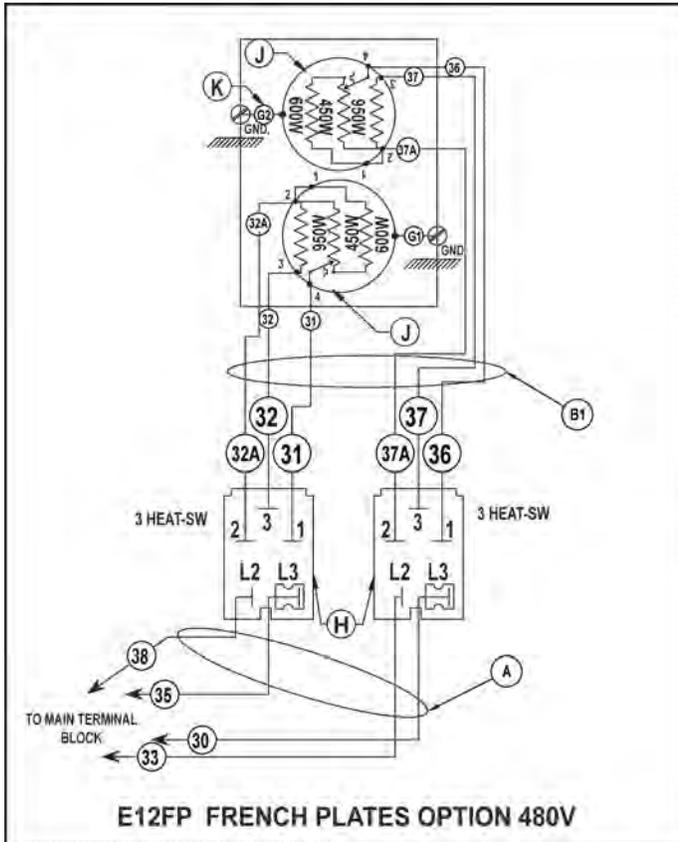


DERIVED FROM: 00-927439 REV C-01

REQ	REQ.	IT.	DESCRIPTION	FIN.
E12FP 208 240 VOLT			EV12 - 208V, 240V TOP CONFIGURATION RANGE	
E12HT 208 240 VOLT				

AI4007

EV12 RANGE TOP - 480V

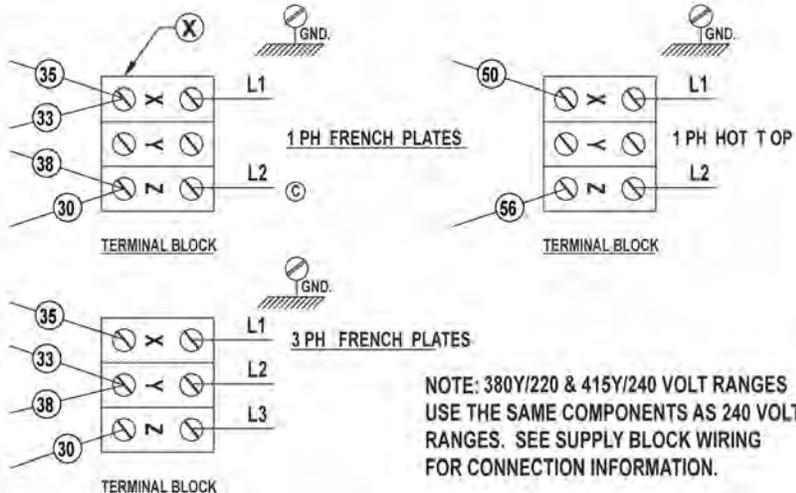


UNIT	TOTAL KW CONN.	LOAD KW PER PHASE 3-PHASE		
		X-Y	Y-Z	Z-X
E12HT	5	-	-	-
E12FP	4	2.0	2.0	-

	NOMINAL AMPS PER LINE			
	3-PHASE 480V			1-PH 480
	X	Y	Z	X-Z
E12HT	-	-	-	10.4
E12FP	4.2	7.2	4.2	8.3

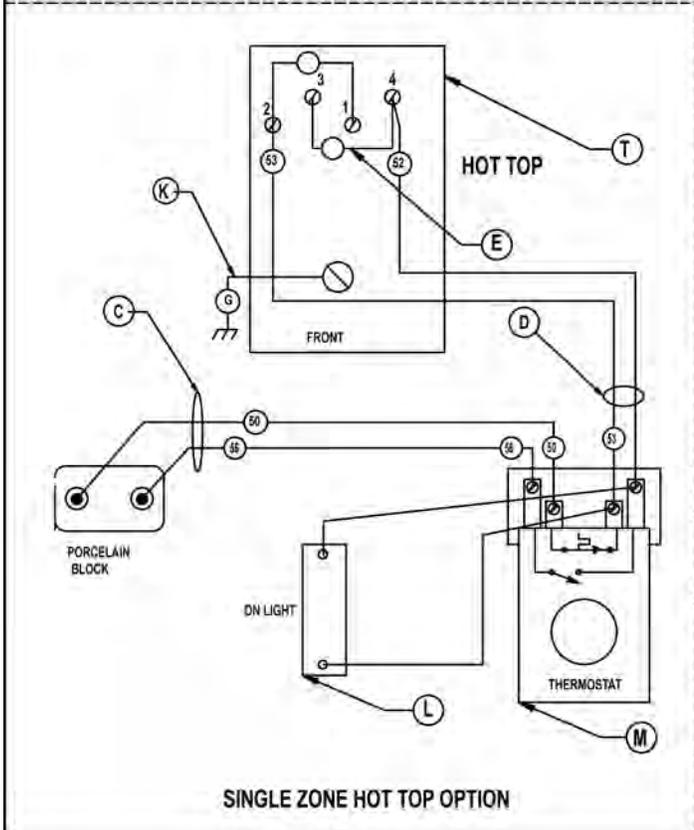
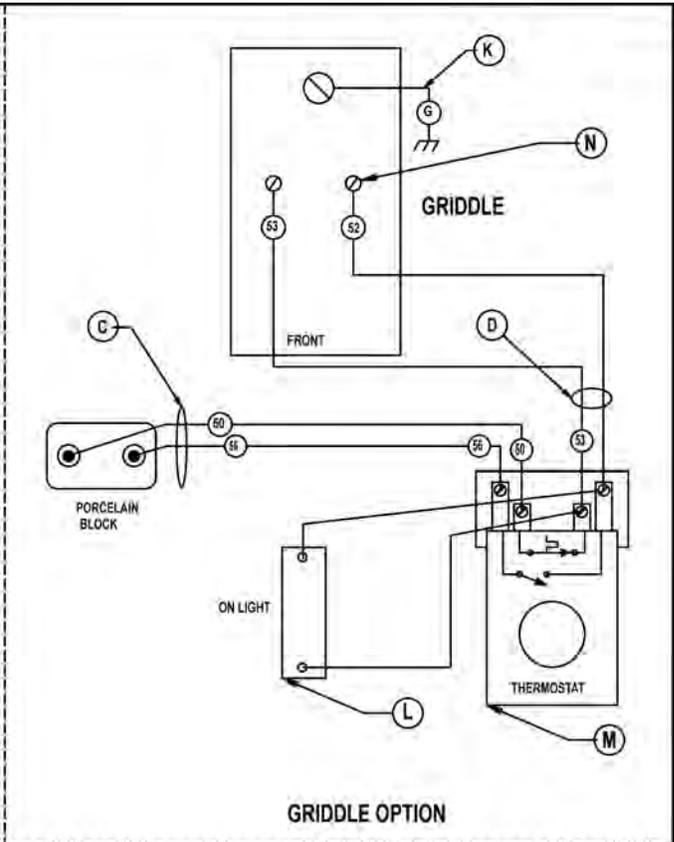
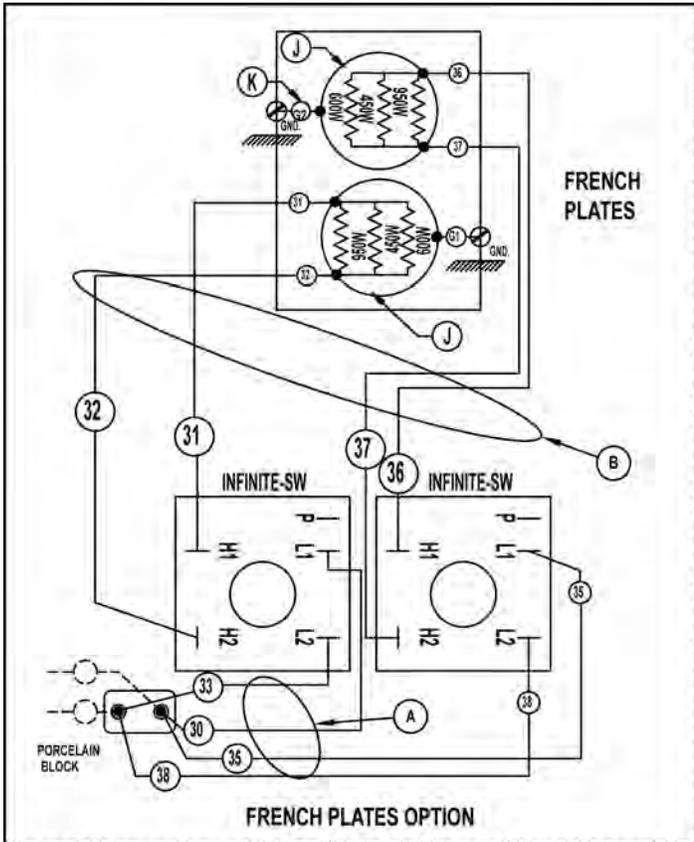
REQ	REQ	IT.	DESCRIPTION	FIN.
-	1	R	RESISTOR 300K OHM	-
-	1	T	ELEMENT HOTTOP 5KW 480 VOLT	-
-	1	M	THERMOSTAT, HOT TOP	-
-	1	L	LIGHT, INDICATOR	-
-	2	K1	WIRE ASSEMBLY [J1]	-
2	1	K	WIRE ASSEMBLY [G1]	-
2	-	J	FRENCH PLATE EGO 2KW 480 VOLT	-
-	-	H1	SWITCH, INFINITE	-
2	-	H	SWITCH, 3 HEAT	-
-	1	D	HARNES, GRIDDLE ELEMENT	-
-	1	C	GRIDDLE SUPPLY HARNES	-
1	-	B1	FRENCH PLATE SUPPLY HARNES	-
-	-	B	FRENCH PLATE SUPPLY HARNES	-
1	-	A	FRENCH PLATE SUPPLY HARNES	-

REQ	REQ	IT.	DESCRIPTION	FIN.
E12FP 480 VOLT	E12HT 480 VOLT		EV12 - 480V TOP CONFIGURATION RANGE	AI4008



DERIVED FROM: 00-927439 REV C-01

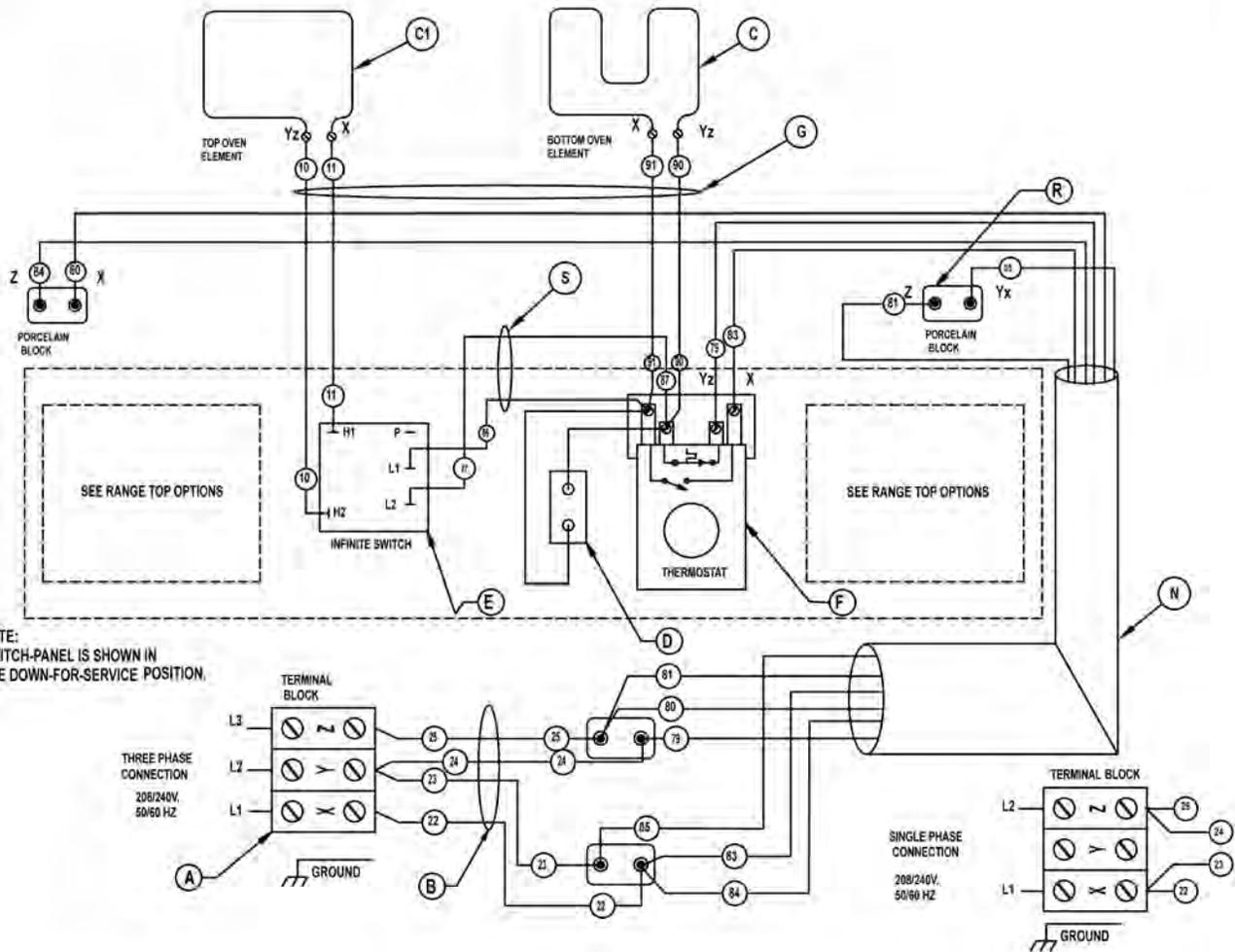
EV24 RANGE TOPS - 208V & 240V



REQ HOT TOP	REQ GRD	REQ FRP	RANGE TOP CONFIGURATIONS	
1	-	-	N	ELEMENT, GRIDDLE 208 VOLT 240 VOLT
1	1	-	M	THERMOSTAT, GRIDDLE & HOT TOP
1	1	-	L	LIGHT, INDICATOR
1	1	2	K	WIRE ASSEMBLY [G]
-	-	2	J	FRENCH PLATE 2.0KW 208 VOLT 240 VOLT
-	-	2	H	SWITCH, INFINITE
-	2	-	E	WIRE ASSEMBLY [J1]
1	1	-	D	HARNES, GRIDDLE ELEMENT
1	1	-	C	HARNES, GRIDDLE
-	-	1	B	FRENCH PLATE HARNES
-	-	1	A	FRENCH PLATE SUPPLY HARNES

DERIVED FROM: 00-927530 REV F-1
 EV & EH 24" RANGE TOPS
 208, 240 VOLTS
AI4009

EV24 STANDARD OVEN - 208V & 240V

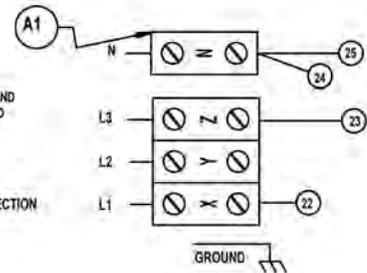


NOTE:
SWITCH-PANEL IS SHOWN IN
THE DOWN-FOR-SERVICE POSITION.

1	S	WIRES, TOP ELEM PWR	-
4	R	PORCELAIN BLOCK ASSEMBLY	-
1	N	HARNESS MAIN (50 RIGHT)	-
1	H	HARNESS MAIN (50 LT)	-
2	G	HARNESS OVEN ELEMENT	-
2	F	THERMOSTAT OVEN (S,J)	-
2	E	SWITCH INFINITE	-
2	D	LIGHT INDICATOR ASSEMBLY "OVEN"	-
2	C1	ELEMENT TOP 1.25KW	208 VOLT 240 VOLT
2	C	ELEMENT BOTTOM 3.75KW	208 VOLT 240 VOLT
1	B1	HARNESS POWER (36)	-
1	B	HARNESS POWER (24)	-
-	A1	TERMINAL BLOCK 1 POLE 220/380	-
2	A	TERMINAL BLOCK 3 POLE	-
REQ.	IT	DESCRIPTION	FIN.

VOLTAGE BETWEEN LINES AND
NEUTRAL MUST NOT EXCEED
240 VAC.

3ØØ/415 V, 3PH
50/60 Hz
WITH NEUTRAL
SUPPLY CONNECTION

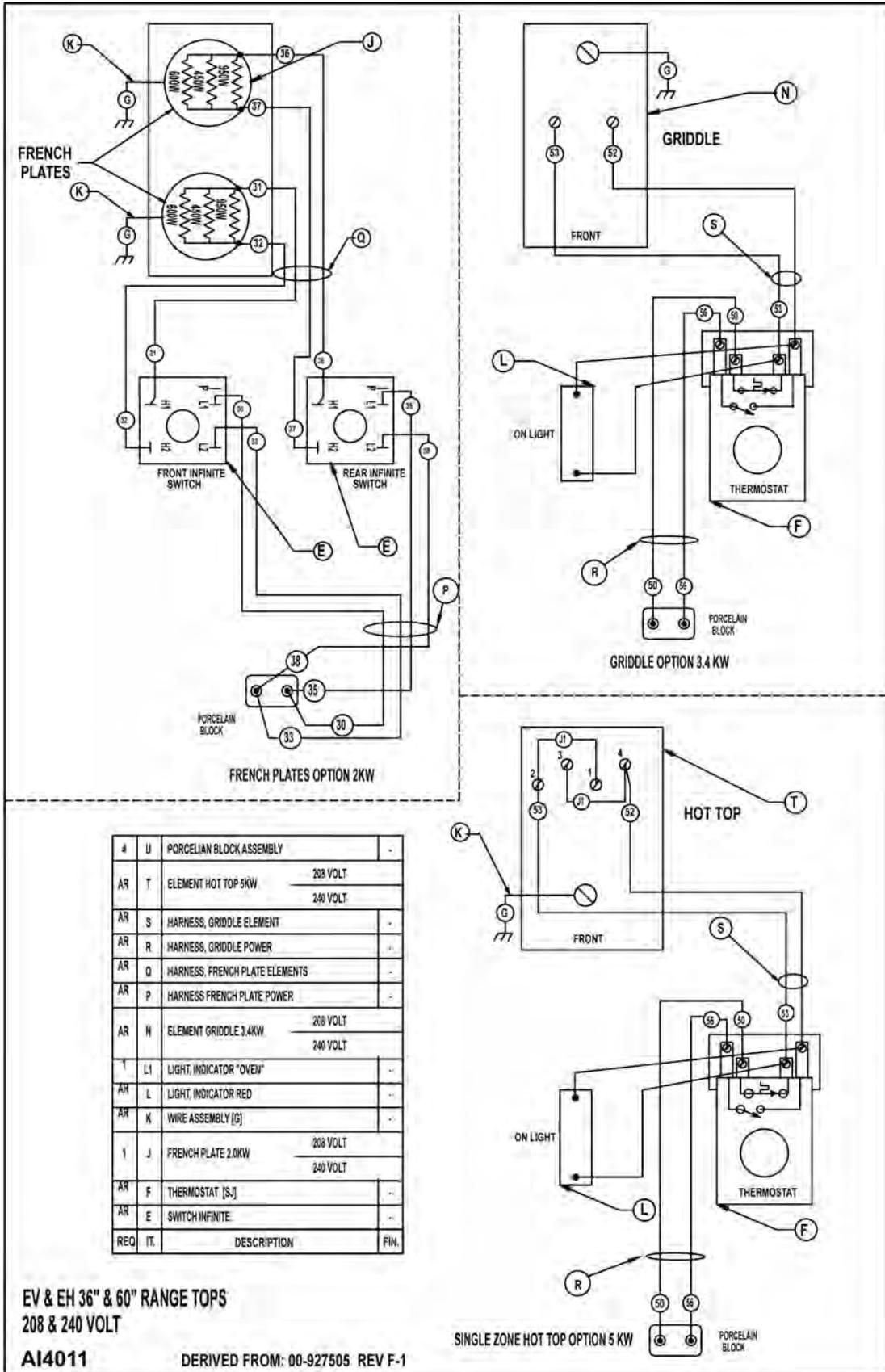


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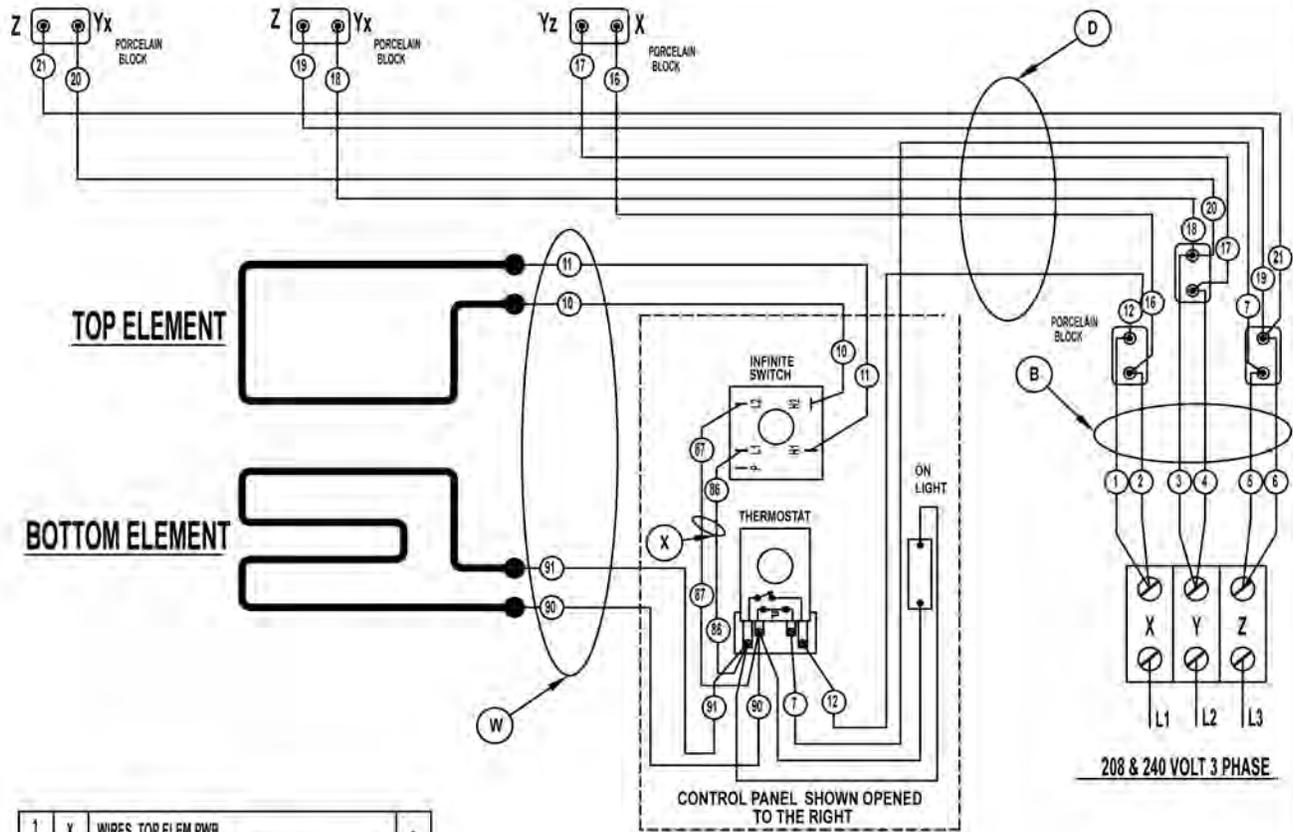
EV & EH 24" RANGE
208, 240 VOLTS

AI4010

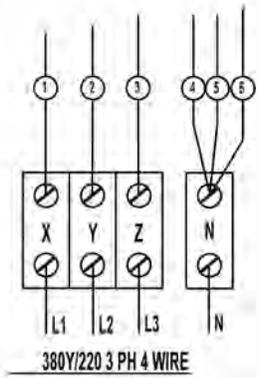
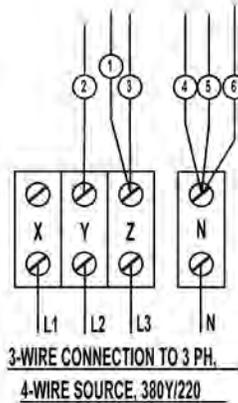
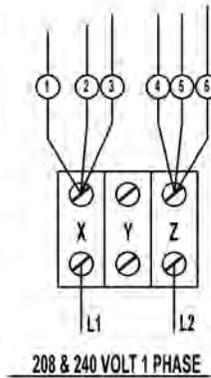
EV36 & EV60 RANGE TOPS - 208V & 240V



EV36 & EV60 STANDARD OVEN - 208V & 240V



1	X	WIRES, TOP ELEM PWR	-
1	C2	ELEMENT TOP 1.75 KW	208 VOLT
			240 VOLT
1	W	HARNESS OVEN ELEMENT	-
AR	V	WIRE ASSEMBLY [J1]	-
4	U	PORCELAIN BLOCK ASSEMBLY	-
1	L1	LIGHT, INDICATOR "OVEN"	-
AR	F	THERMOSTAT [S _J]	-
AR	E	SWITCH INFINITE	-
1	D	HARNESS MAIN	-
1	C1	ELEMENT BOT 3.75 KW	208 VOLT
			240 VOLT
1	B	HARNESS POWER	-
-	A1	TERMINAL BLOCK 1 POLE 220/380	-
1	A	TERMINAL BLOCK 3 POLE	-
REQ	IT.	DESCRIPTION	FIN.

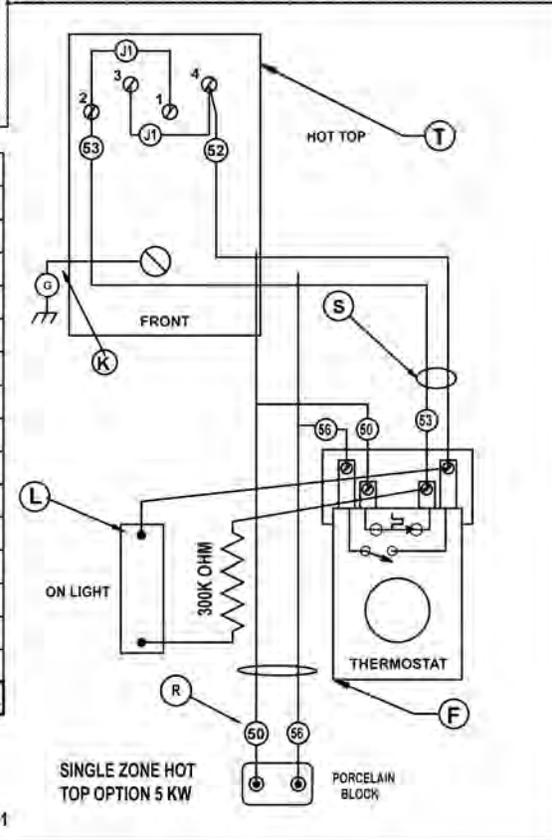
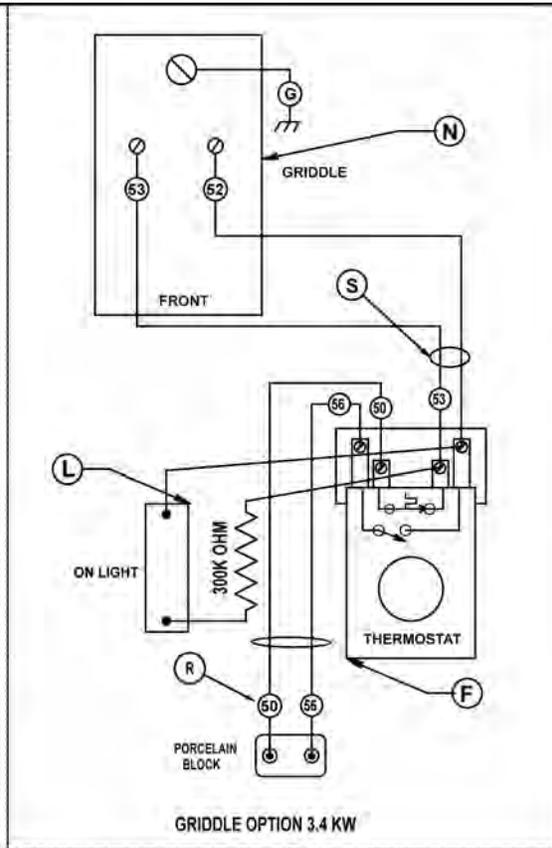
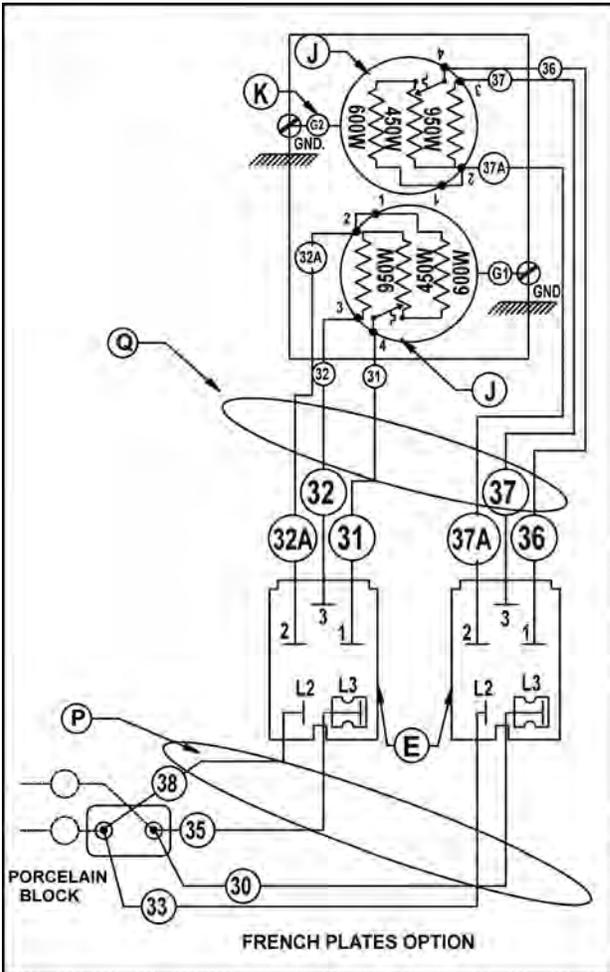


EV & EH 36" & 60" RANGES
STANDARD OVEN
208 & 240 VOLT

DERIVED FROM: 00-927505 REV F-1

AI4012

EV24 RANGE TOPS - 480V



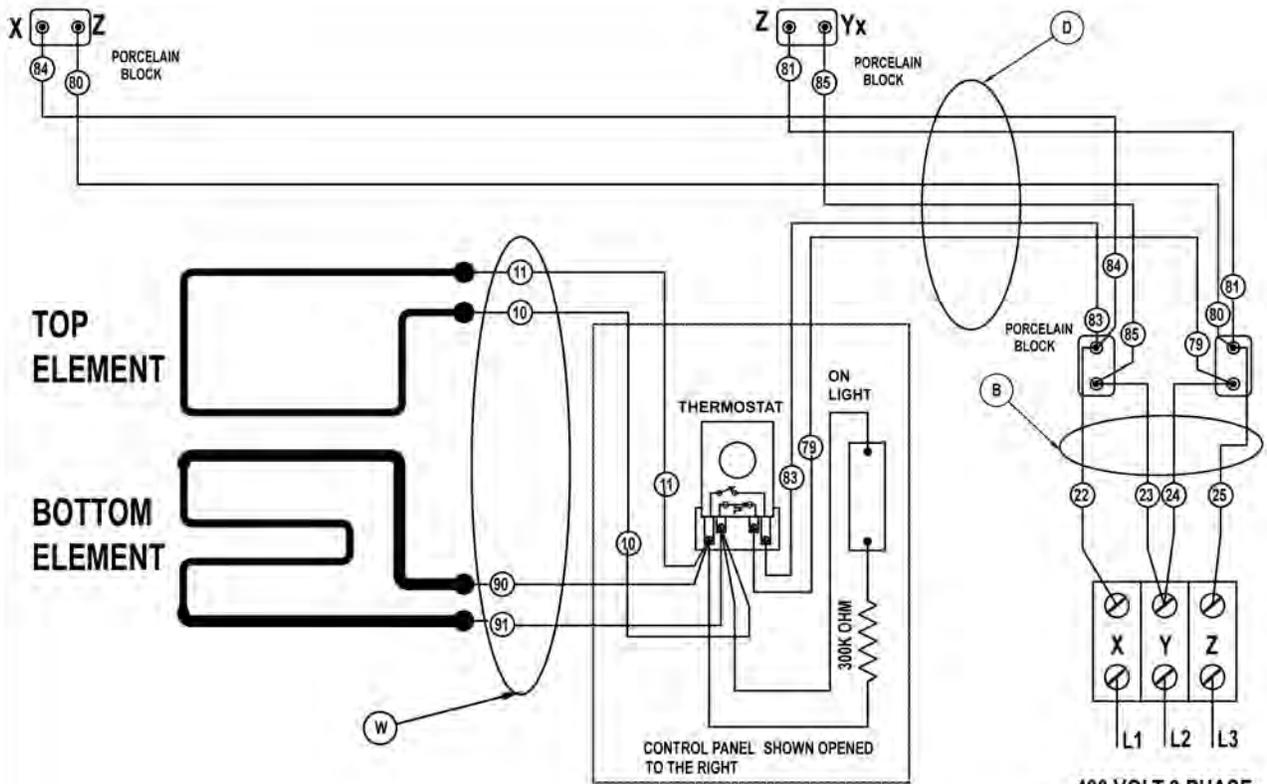
AR	V	WIRE ASSEMBLY [J1]	-
4	U	PORCELAIN BLOCK ASSEMBLY	-
AR	T	ELEMENT HOT TOP 5KW	480 VOLT
AR	S	HARNESS, GRIDDLE ELEMENT	-
AR	R	HARNESS, GRIDDLE POWER	-
AR	Q	HARNESS, FRENCH PLATE ELEMENTS	-
AR	P	HARNESS FRENCH PLATE POWER	-
AR	N	ELEMENT GRIDDLE 3.4KW	480 VOLT
AR	L	LIGHT, INDICATOR RED	-
AR	K	WIRE ASSEMBLY [G]	-
1	J	FRENCH PLATE 2.0KW	480 VOLT
AR	F	THERMOSTAT [SJ]	-
AR	E	SWITCH 3 HEAT	-
REQ. IT.		DESCRIPTION	FIN.

EV & EH 24" OF 60" RANGES
RANGE TOPS
480 VOLT

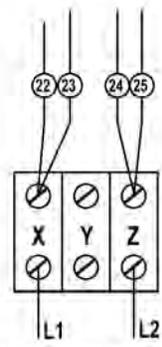
AI4013

DERIVED FROM: 00-927568 REV F-01

EV24 STANDARD OVEN - 480V



480 VOLT 3 PHASE



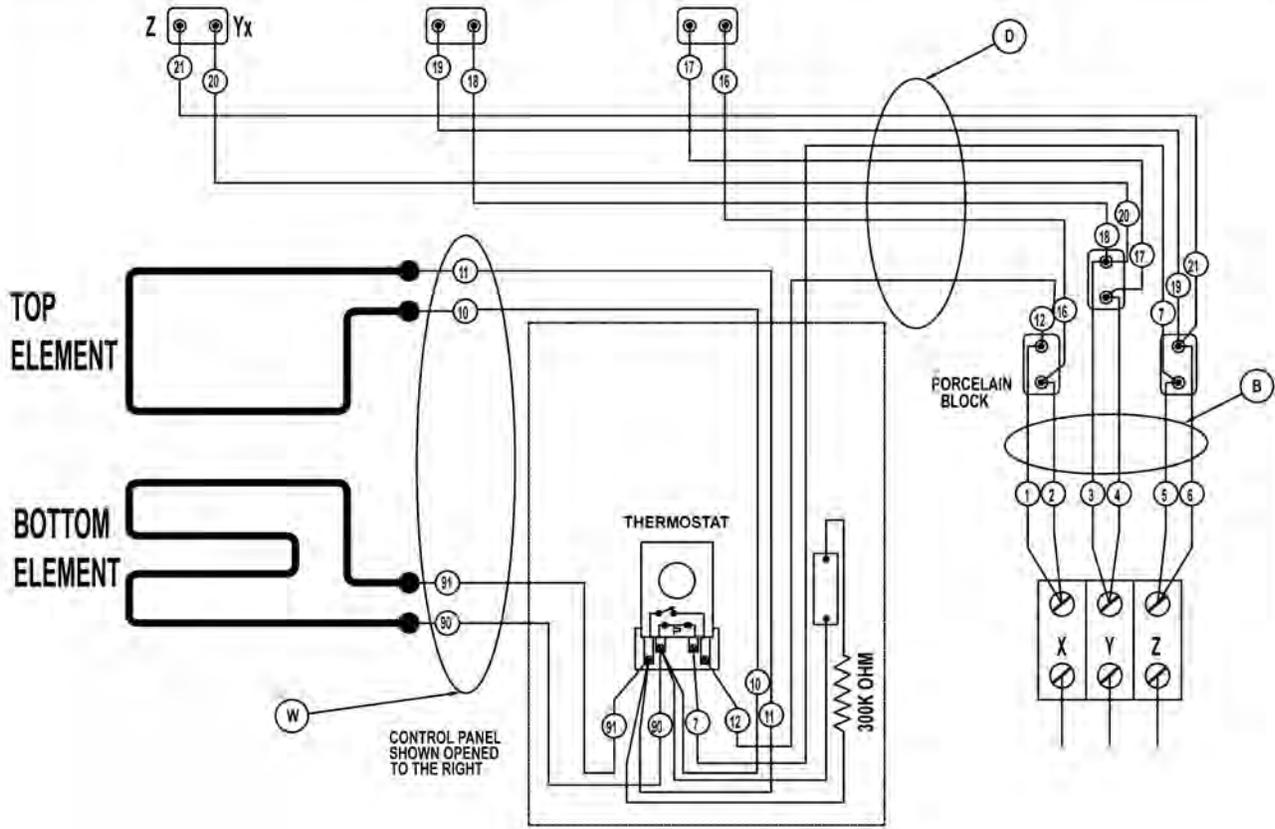
480 VOLT 1 PHASE

1	W	HARNES OVEN ELEMENT	-
4	U	PORCELIAN BLOCK ASSEMBLY	-
1	L1	LIGHT, INDICATOR "OVEN"	-
AR	F	THERMOSTAT [SJ]	-
AR	E	SWITCH 3 HEAT	-
1	D	HARNES MAIN [60 RIGHT]	-
1	C1	ELEMENT TOP 1.25KW	480 VOLT
1	C	ELEMENT BOTTOM 3.75KW	480 VOLT
1	B	HARNES POWER 24	-
-	A1	TERMINAL BLOCK 1 POLE 220/380	-
1	A	TERMINAL BLOCK 3 POLE	-
REQ	IT.	DESCRIPTION	FIN.

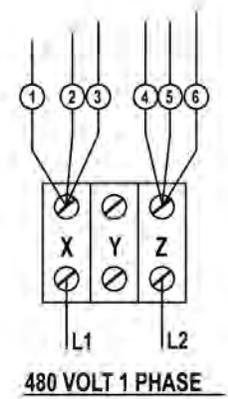
DERIVED FROM: 00-927568 REV F-01

**EV & EH 24" OF 60" RANGES
STANDARD OVEN
480 VOLT AI4014**

EV36 STANDARD OVEN - 480V



1	W	HARNES OVEN ELEMENT	-
4	U	PORCELIAN BLOCK ASSEMBLY	-
1	L1	LIGHT, INDICATOR "OVEN"	-
AR	F	THERMOSTAT [SJ]	-
AR	E	SWITCH 3 HEAT	-
1	D	HARNES MAIN [60 RIGHT]	-
1	C1	ELEMENT TOP 1.25KW	480 VOLT
1	C	ELEMENT BOTTOM 3.75KW	480 VOLT
1	B	HARNES POWER 24	-
-	A1	TERMINAL BLOCK 1 POLE 220/380	-
1	A	TERMINAL BLOCK 3 POLE	-
REQ.	IT.	DESCRIPTION	FIN.



DERIVED FROM: 00-927547 REV D-01

**EV36 ELECTRIC RANGE
STANDARD OVEN
480V**

AI4016

TROUBLESHOOTING

TROUBLESHOOTING - STANDARD OVEN

SYMPTOM	POSSIBLE CAUSES
No heat.	<ol style="list-style-type: none"> 1. No power to range. 2. Oven wiring malfunction. 3. Thermostat malfunction. 4. Heating elements malfunction.
Heat from top oven element only.	<ol style="list-style-type: none"> 1. Oven thermostat malfunction. 2. Oven wiring malfunction. 3. Bottom heating element malfunction.
Heat from bottom oven element only.	<ol style="list-style-type: none"> 1. Infinite switch in OFF position or malfunction. 2. Top heating element malfunction.
Cooking problems.	<ol style="list-style-type: none"> 1. Refer to the <u>Installation & Operation Manual</u>.
Oven temperature not at set point.	<ol style="list-style-type: none"> 1. Thermostat not calibrated. See <u>OVEN THERMOSTAT CALIBRATION</u>. 2. Thermostat malfunction.

TROUBLESHOOTING - RANGE TOPS

NOTE: Range tops can be a combination of French Plates, griddle, or Hot Tops.

SYMPTOM	POSSIBLE CAUSES
Range tops do not heat.	<ol style="list-style-type: none"> 1. No power to range (circuit breaker open). 2. Range wiring malfunction. 3. Thermostat malfunction (griddle, Hot Top). 4. Infinite switch malfunction (French Plates 208-240V) 5. 3 heat switch malfunction (French Plates 480V). 6. Heating element malfunction.
Griddle or Hot Top thermostat not cycling at set temperature.	<ol style="list-style-type: none"> 1. Thermostat needs calibrated. See <u>GRIDDLE THERMOSTAT CALIBRATION</u> or <u>HOT TOP THERMOSTAT CALIBRATION</u>. 2. Thermostat bulb positioned incorrectly. 3. Thermostat malfunction.
Cooking problems.	<ol style="list-style-type: none"> 1. Refer to the <u>Installation & Operation Manual</u>.
Griddle or Hot Top heats beyond set temperature.	<ol style="list-style-type: none"> 1. Thermostat not calibrated. See <u>GRIDDLE THERMOSTAT CALIBRATION</u> or <u>HOT TOP THERMOSTAT CALIBRATION</u> 2. Thermostat malfunction.

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VULCAN

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EV SERIES ELECTRIC RANGES

MODELS

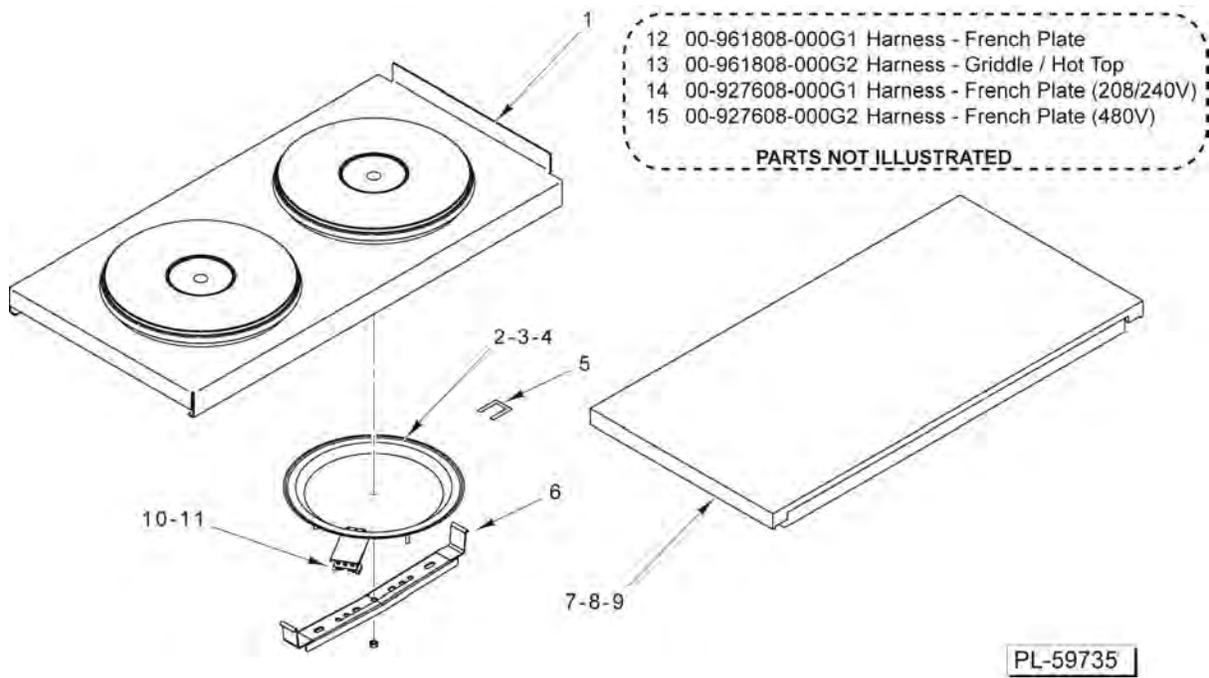
*EV12
EV24S
EV36S
EV48S
EV60S
EV72S*



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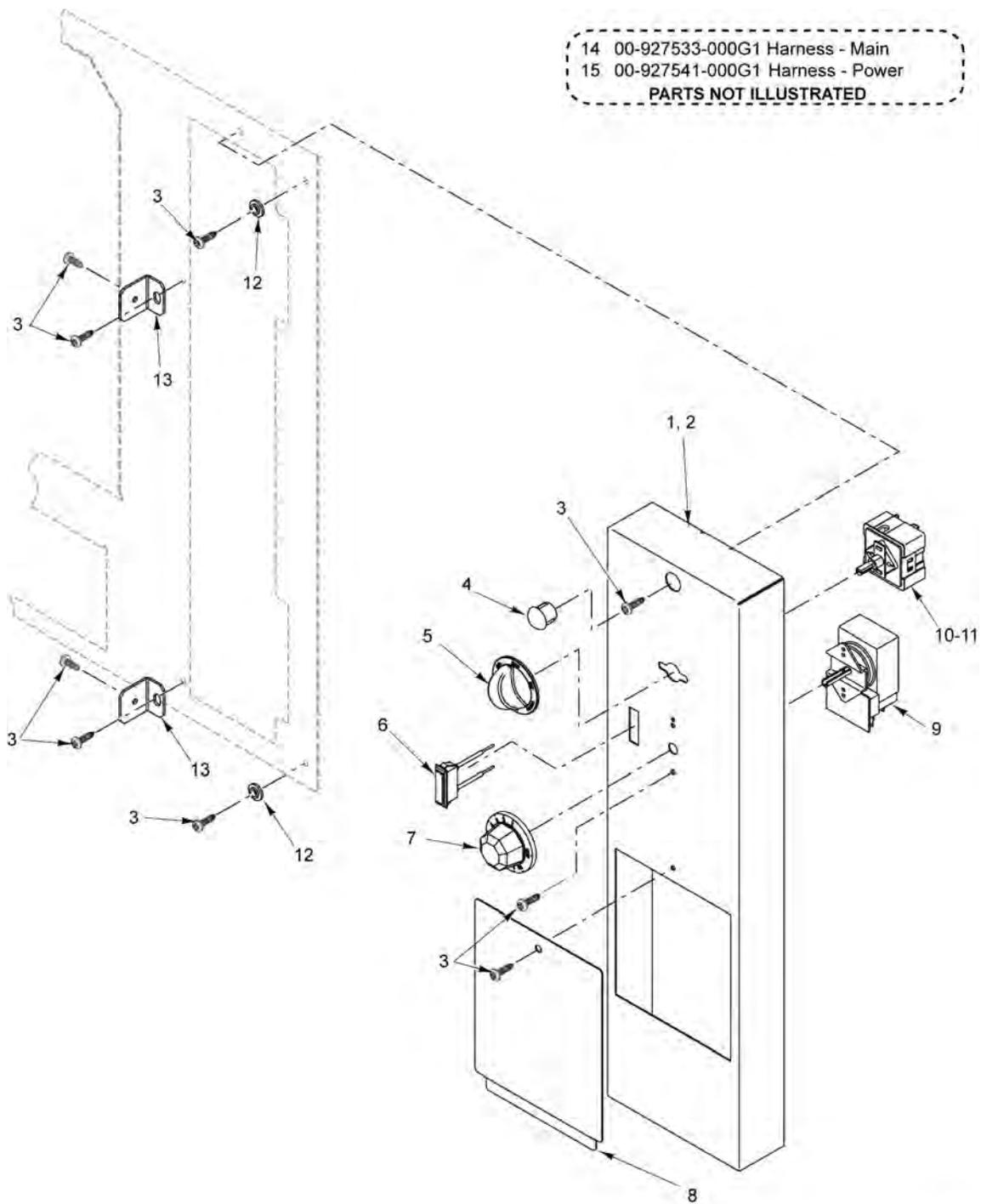


PLATES

PLATES

ILLUS.	PART NO.	NAME OF PART	AMT.
PL-59735			
1	00-927501-0000A	Plate - Aeration (French Plate).....	AR
2	00-421240-00001	Plate - French E.G.O. (208 V.).....	AR
3	00-421240-00002	Plate - French E.G.O. (240 V.).....	AR
4	00-421240-00003	Plate - French E.G.O. (480 V.).....	AR
5	00-415049-00001	Strap - Jumper.....	AR
6	00-415048-00001	Clamp.....	AR
7	00-421320-00001	Top - Hot (208 V.).....	AR
8	00-421320-00002	Top - Hot (240 V.).....	AR
9	00-421320-00003	Top - Hot (480 V.).....	AR
*10	00-335223-00001	Terminal Block Assy. (Plate) (208-240 V.).....	AR
*11	00-335223-00002	Terminal Block Assy. (Plate) (480 V.).....	AR
12	00-961808-000G1	Harness - French Plates (Infinite Switch to Element).....	AR
13	00-961808-000G2	Harness - Griddle / Hot Top (Thermostat to Element).....	AR
14	00-927608-000G1	Harness - French Plate (208/240 V.).....	AR
15	00-927608-000G2	Harness - French Plate (480 V.).....	AR

* (Service part, not required if the French Plate is being replaced.)



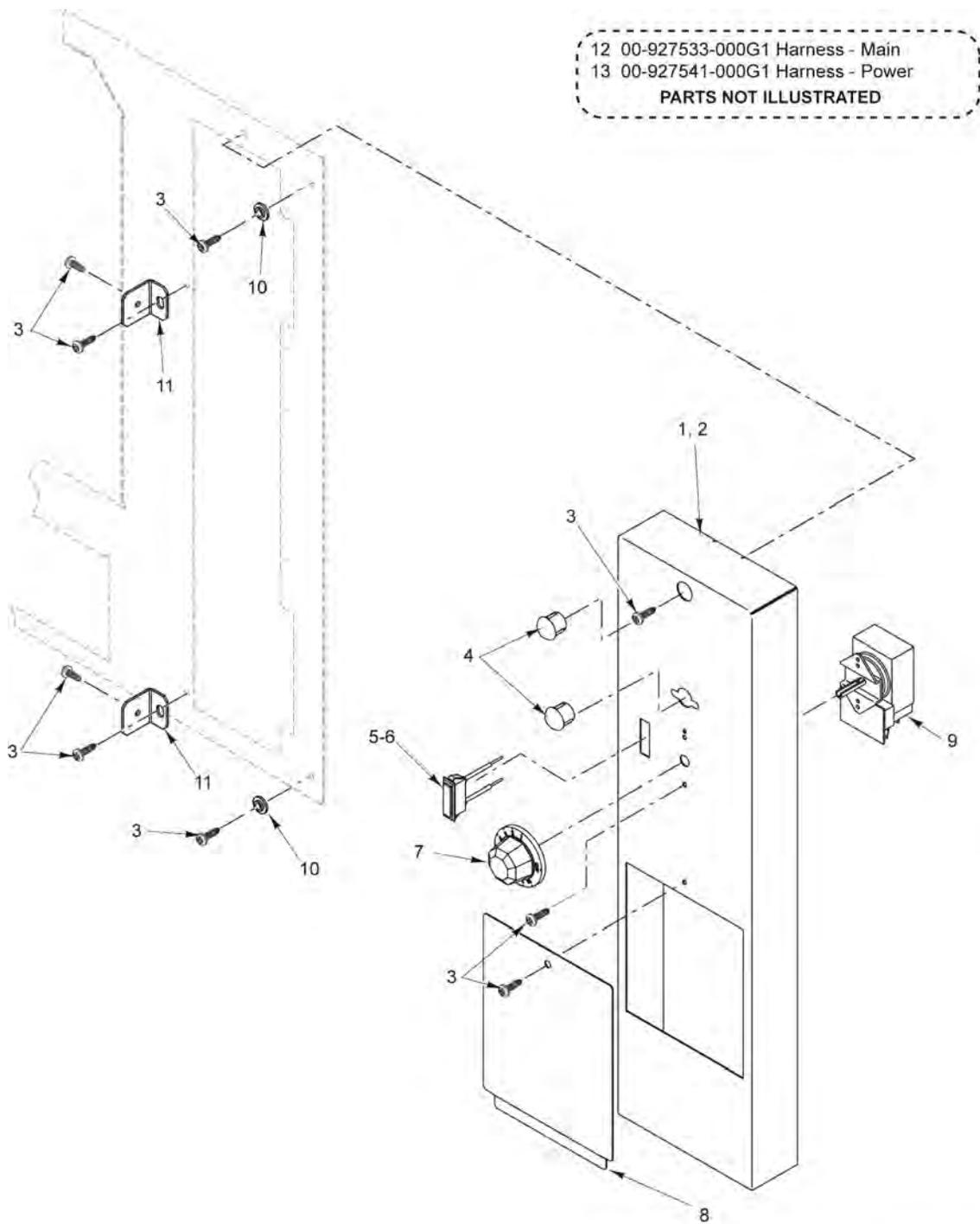
PL-59734

**OVEN CONTROLS
(208-240 V.)**

**OVEN CONTROLS
(208-240 V.)**

ILLUS.	PART NO.	NAME OF PART	AMT.
PL-59734			
*1	00-927506	Panel - Control, Electric.....	1
**2	00-961562-000EV	Panel - Oven.....	1
3	00-730228	Self-Tapping Screw 10-24 x 1/2 Phil. Truss Hd.....	AR
*4	00-928068-00001	Plug.....	1
5	00-927603-00001	Knob - Infinite Switch.....	1
6	00-428900-000G3	Light - Indicator.....	1
7	00-418060-00002	Dial - Thermostat.....	1
8	00-927507	Door - Access.....	1
9	00-411506-00014	Thermostat (175-550 Deg. F).....	1
10	00-411503-00004	Switch - Infinite Switch.....	1
11	NS-047-80	Lock Nut 3/8-24 Hex.....	1
**12	00-961551	Bracket - Oven Panel.....	2
**13	00-961552	Washer - Shoulder.....	2
14	00-927533-000G1	Harness - Main (LH).....	1
15	00-927541-000G1	Harness - Power.....	1

* Before June 2017
 ** Starting June 2017



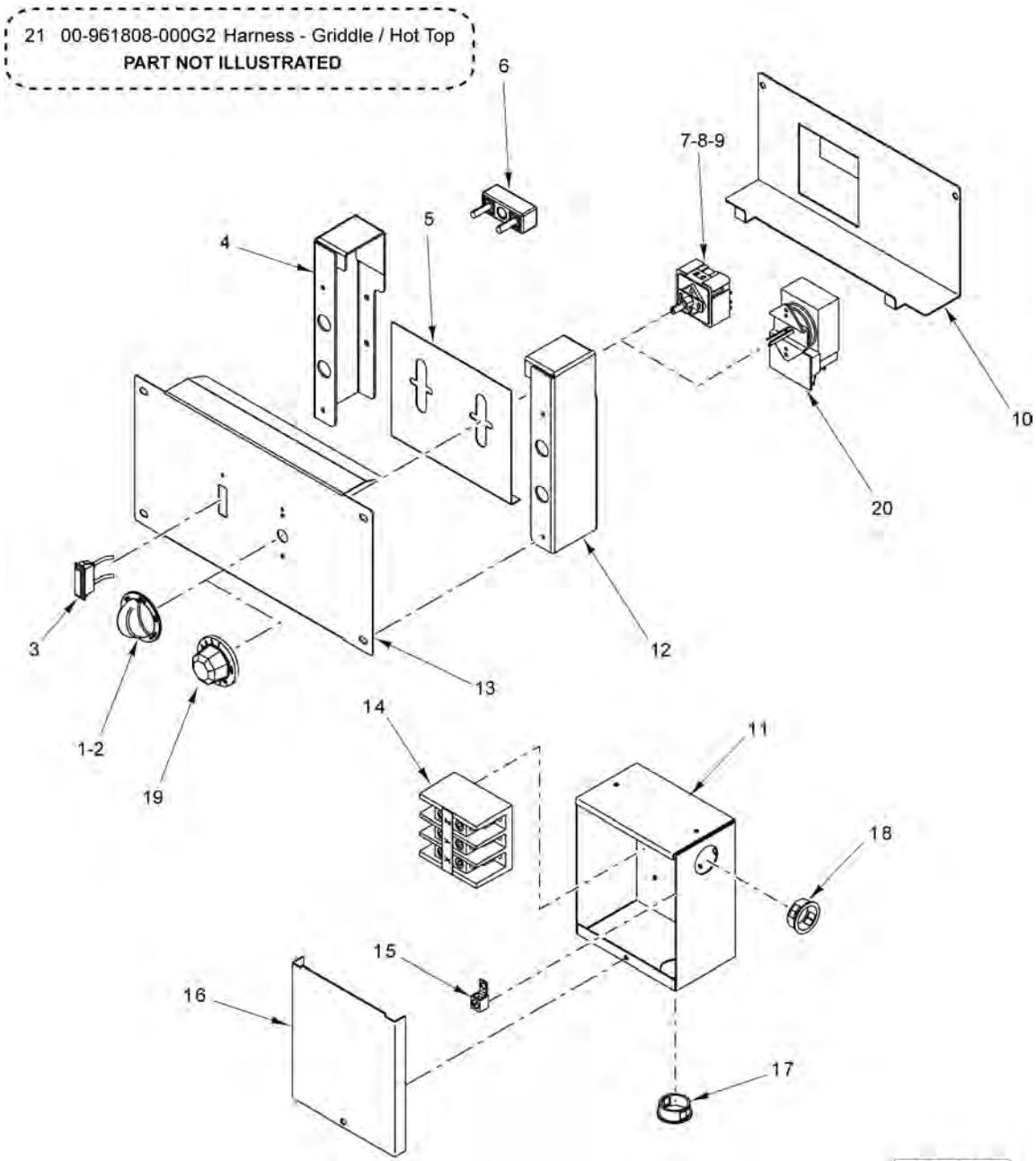
PL-65169

**OVEN CONTROLS
(480 V.)**

OVEN CONTROLS (480 V.)

ILLUS.	PART NO.	NAME OF PART	AMT.
PL-65169			
*1	00-927506	Panel - Control, Electric.....	1
**2	00-961562-EV480	Panel - Oven.....	1
3	00-730228	Self-Tapping Screw 10-24 x 1/2 Phil. Truss Hd.....	.AR
*4	00-928068-00001	Plug.....	2
5	00-428900-000G3	Light - Indicator.....	1
6	00-417876-00001	Resistor (300 K., 1/4 W.).....	1
7	00-418060-00002	Dial - Thermostat.....	1
8	00-927507	Door - Access.....	1
9	00-411506-00014	Thermostat (175-550 Deg. F).....	1
**10	00-961552	Washer - Shoulder.....	2
**11	00-961551	Bracket - Oven Panel.....	2
12	00-927533-000G1	Harness - Main (LH).....	1
13	00-927541-000G1	Harness - Power.....	1

* Before June 2017
** Starting June 2017



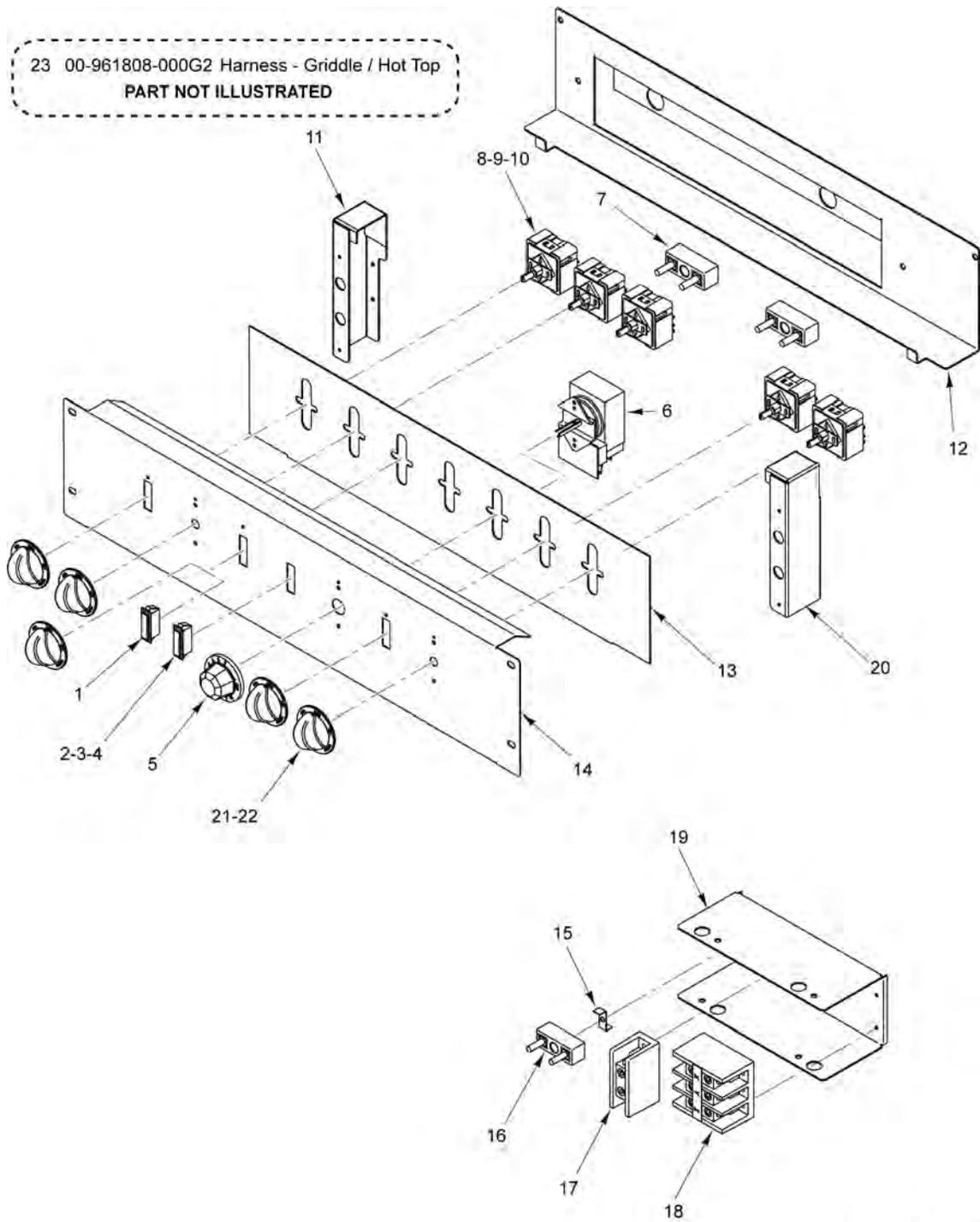
PL-59738

**CONTROLS AND ELECTRICAL COMPONENTS
(12 INCH)**

**CONTROLS AND ELECTRICAL COMPONENTS
(12 INCH)**

ILLUS. PL-59738	PART NO.	NAME OF PART	AMT.
*1	00-927603-00001	Knob - Infinite Switch (208 V. & 240 V. Units Only).....	AR
*2	00-412251-00003	Knob (4 Position Switch) 480 V. (480 V. Units Only).....	AR
3	00-428900-000G1	Indicator - Light (Hot Top & Griddle Units Only).....	1
4	00-921883	Bracket - Manifold Cover (LH).....	1
5	00-497496	Stiffener (12 In.).....	1
6	00-417934-000G1	Block Assy. - Porcelain.....	1
*7	00-411503-00004	Switch - Infinite Switch (208 V. & 240 V. Units Only).....	AR
*8	00-355798-00001	Switch (4-Position) (480 V. Units Only).....	AR
9	NS-047-80	Lock Nut 3/8-24 Hex.....	1
10	00-921887-00012	Bracket - Mount.....	1
11	00-499075	Box - Main Power.....	1
12	00-921882	Bracket - Manifold Cover (RH).....	1
13	00-921888-00012	Panel - Control.....	1
14	00-410472-00008	Block - Terminal (3-Pole).....	1
15	00-417856-00001	Lug - Grounding (With Set Screw).....	1
16	00-499076	Lid - Power Supply.....	1
17	FE-017-16	NLA - Obsolete--Bushing - Electrical Snap.....	1
18	FE-017-16	NLA - Obsolete--Bushing - Electrical Snap.....	1
*19	00-418060-00002	Dial - Thermostat.....	AR
*20	00-411506-00014	Thermostat (175-550 Deg. F).....	AR
21	00-961808-000G2	Harness - Griddle / Hot Top (Switch / Thermostat to Element).....	AR

* Unit Can Have Items 1 & 7, 2 & 8, or 18 & 19



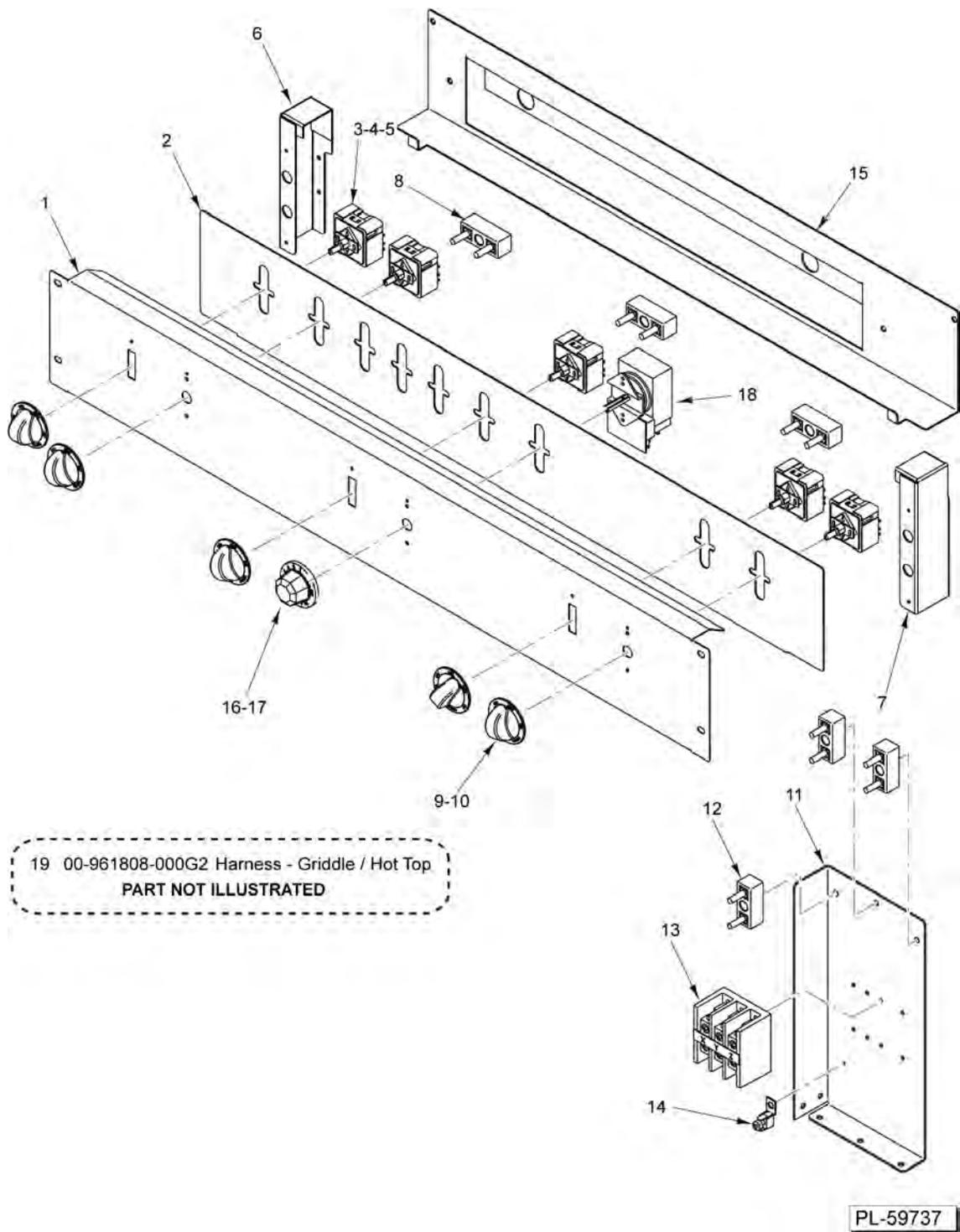
PL-59736

**CONTROLS AND ELECTRICAL COMPONENTS
(24 INCH)**

CONTROLS AND ELECTRICAL COMPONENTS (24 INCH)

ILLUS. PL-59736	PART NO.	NAME OF PART	AMT.
1	00-499974-00001	Plug - Light.....	1
2	00-428900-000G1	Indicator - Light.....	AR
3	00-428900-000G3	Light - Indicator.....	AR
4	00-417876-00001	Resistor (300 K., 1/4 W.) (480 V. Units Only) (Not Shown).....	1
*5	00-418060-00002	Dial - Thermostat.....	AR
*6	00-411506-00014	Thermostat (175-550 Deg. F) (Oven, Griddle & Hot Top).....	AR
7	00-417934-000G1	Block Assy. - Porcelain.....	AR
*8	00-411503-00004	Switch - Infinite Switch (208 V. & 240 V. Units Only).....	AR
*9	00-355798-00001	Switch (4-Position) (480 V. Units Only).....	AR
10	NS-047-80	Lock Nut 3/8-24 Hex.....	AR
11	00-921883	Bracket - Manifold Cover (LH).....	1
12	00-921887-00024	Bracket - Terminal.....	1
13	00-927408	Panel - Stiffener (24 In.).....	1
14	00-921888-00024	Cover.....	1
15	00-497218-00001	Clip - Porcelain Block.....	1
16	00-417934-000G1	Block Assy. - Porcelain.....	1
17	00-410472-00009	Block - Terminal (1-Pole).....	1
18	00-410472-00008	Block - Terminal (3-Pole).....	1
19	00-927514	Holder - Terminal Blocks.....	1
20	00-921882	Bracket - Manifold Cover (RH).....	1
*21	00-927603-00001	Knob - Infinite Switch (208 V. & 240 V. Units Only).....	AR
*22	00-412251-00003	Knob (4 Position Switch) 480 V. (480 V. Units Only).....	AR
23	00-961808-000G2	Harness - Griddle / Hot Top (Switch / Thermostat to Element).....	AR

* Unit Can Have Items 5 & 6, 8 & 20, and / or 9 & 21

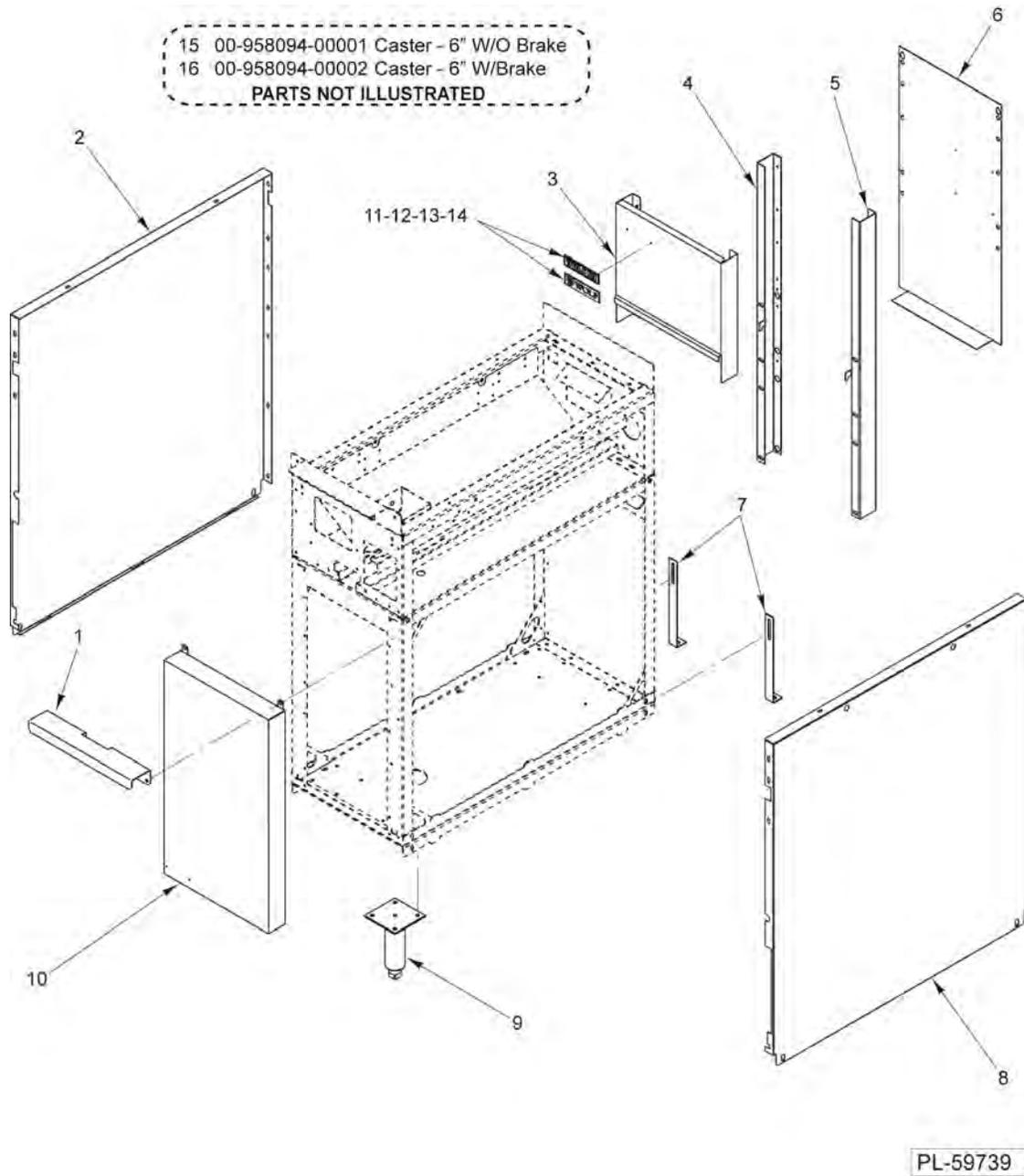


**CONTROLS AND ELECTRICAL COMPONENTS
(36 INCH)**

CONTROLS AND ELECTRICAL COMPONENTS (36 INCH)

ILLUS. PL-59737	PART NO.	NAME OF PART	AMT.
1	00-921888-00036	Cover.....	1
2	00-927503	Panel - Stiffener (36 In.).....	1
*3	00-411503-00004	Switch - Infinite Switch (208 V. & 240 V. Units Only).....	AR
*4	00-355798-00001	Switch (4-Position) (480 V. Units Only).....	AR
5	NS-047-80	Lock Nut 3/8-24 Hex.....	AR
6	00-921883	Bracket - Manifold Cover (LH).....	1
7	00-921882	Bracket - Manifold Cover (RH).....	1
8	00-417934-000G1	Block Assy. - Porcelain.....	AR
*9	00-927603-00001	Knob - Infinite Switch (208 V. & 240 V. Units Only).....	AR
*10	00-412251-00003	Knob (4 Position Switch) 480 V. (480 V. Units Only).....	AR
11	00-927509	Bracket - Terminal Block Mount.....	1
12	00-417934-000G1	Block Assy. - Porcelain.....	3
13	00-410472-00008	Block - Terminal (3-Pole).....	1
14	00-417856-00001	Lug - Grounding (With Set Screw).....	1
15	00-921887-00036	Bracket - Terminal.....	1
*16	00-418060-00002	Dial - Thermostat.....	AR
17	00-418061-00004	Dial - Thermostat.....	AR
*18	00-411506-00014	Thermostat (175-550 Deg. F).....	AR
19	00-961808-000G2	Harness - Griddle / Hot Top (Switch / Thermostat to Element).....	AR

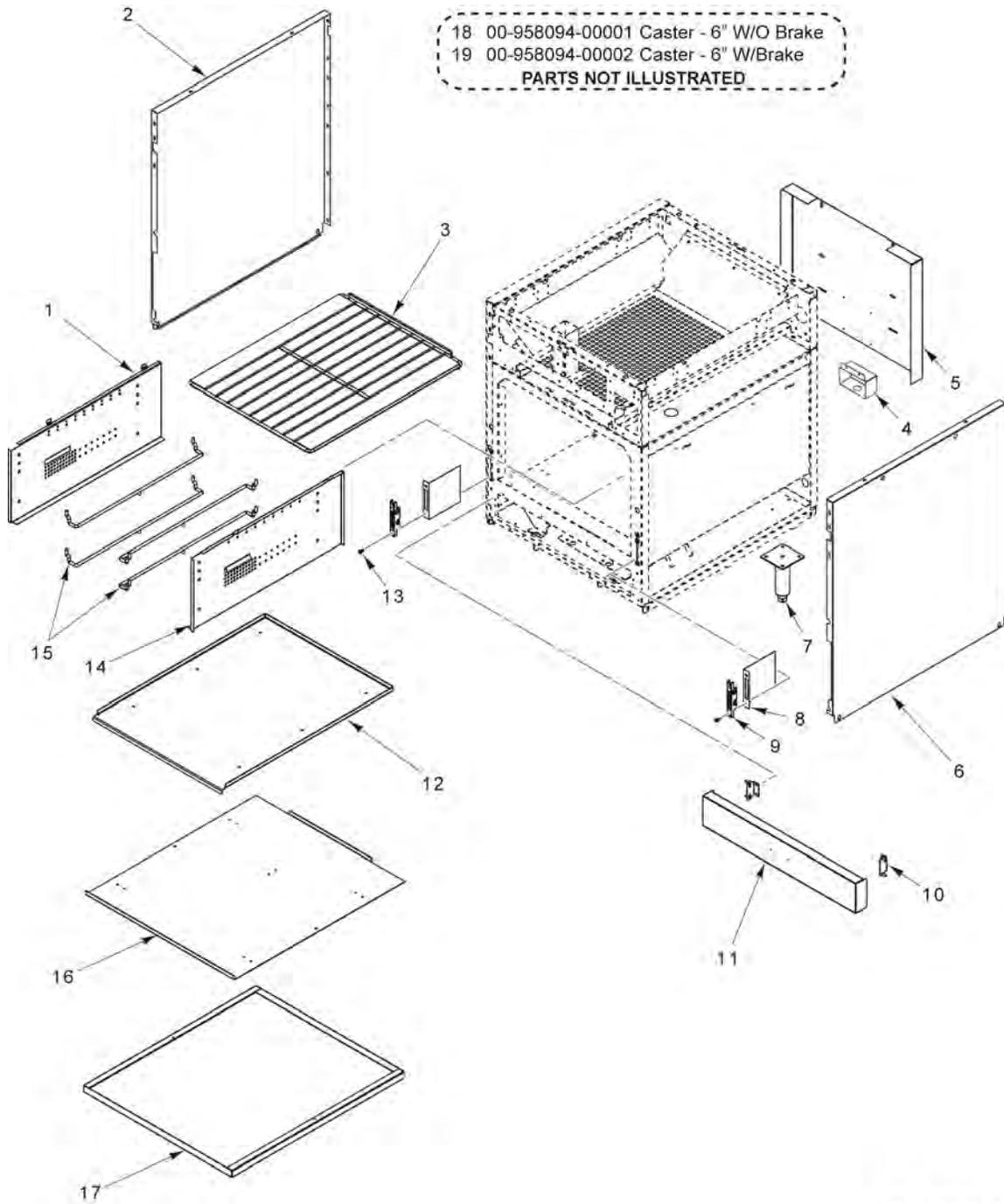
* Unit Can Have Items 3 & 8, 4 & 9, and / or 15 & 16



**BODY
(12 INCH)**

**BODY
(12 INCH)**

ILLUS.	PART NO.	NAME OF PART	AMT.
PL-59739			
1	00-927462	Handle - Crumb Tray.....	1
2	00-921807	Panel - Side.....	1
3	00-921317	Backsplash (12 In.).....	1
4	00-922140	Channel (LH).....	1
5	00-922141	Channel (RH).....	1
6	00-921713	Panel - Back (12 In.).....	1
7	00-927459	Bracket - Anchor.....	2
8	00-921807	Panel - Side.....	1
9	00-413112-00012	Leg - Plate Mount (6 In.) (SST).....	4
10	00-927464	Cover - Front.....	1
11	00-957916-00003	Nameplate - Small (Vulcan).....	1
12	00-723204	Nameplate - Small (Wolf).....	1
13	NS-047-78	Pal Nut (Used with Wolf Nameplate).....	2
14	NS-047-79	Pal Nut 3/16 (Used with Vulcan Nameplate).....	2
15	00-958094-00001	Caster W/O Brake (6 In.).....	AR
16	00-958094-00002	Caster W/ Brake (6 In.).....	AR

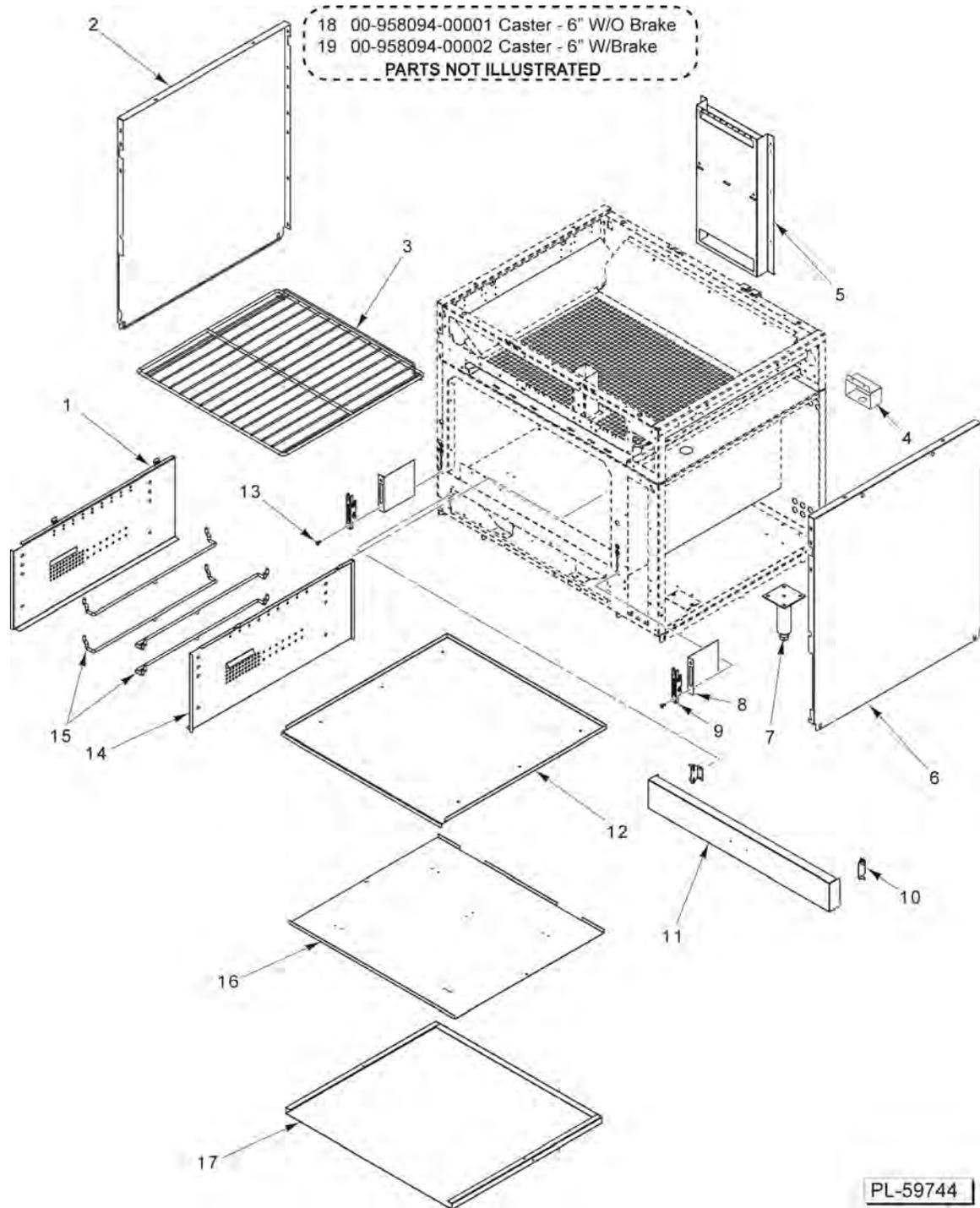


PL-59743

**BODY
(24 INCH)**

**BODY
(24 INCH)**

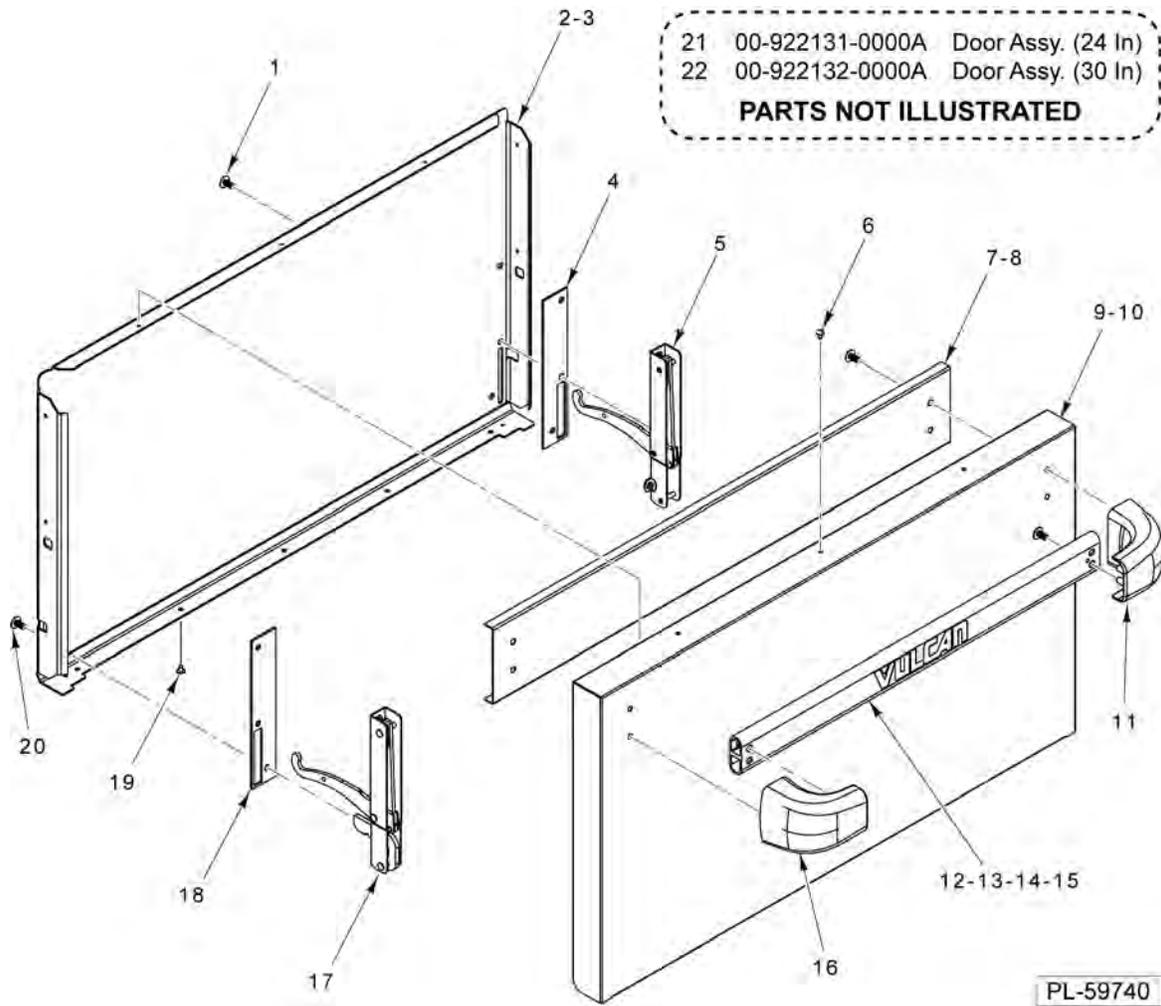
ILLUS. PL-59743	PART NO.	NAME OF PART	AMT.
1	00-921326	Side Liner - Left.....	1
2	00-921807	Panel - Side.....	1
3	00-923508-0000A	Oven Rack (24 In.).....	2
4	00-921611	Cover - Element.....	2
5	00-921786	Flue - Rear.....	1
6	00-921807	Panel - Side.....	1
7	00-413112-00012	Leg - Plate Mount (6 In.) (SST).....	4
8	00-921095	Insulation - Door Hinge.....	2
9	00-497029-00001	Door Hinge Stop.....	2
10	00-428179-000G1	Bracket - Kick Panel Mounting.....	2
11	00-921785	Kick Panel Assy.....	1
12	00-923515	Cavity Bottom (24 In. Oven).....	1
13	00-723369	Mach. Screw 1/4-20 x 1/2 Phil. Truss Hd.....	4
14	00-921325	Side Liner - Right.....	1
15	00-921064	Guide - Rack.....	4
16	00-927402	Plate - Element Mounting (24 In.).....	1
17	00-927403	Pan - Element (24 In.).....	1
18	00-958094-00001	Caster W/O Brake (6 In.).....	AR
19	00-958094-00002	Caster W/ Brake (6 In.).....	AR



**BODY
(36 INCH)**

**BODY
(36 INCH)**

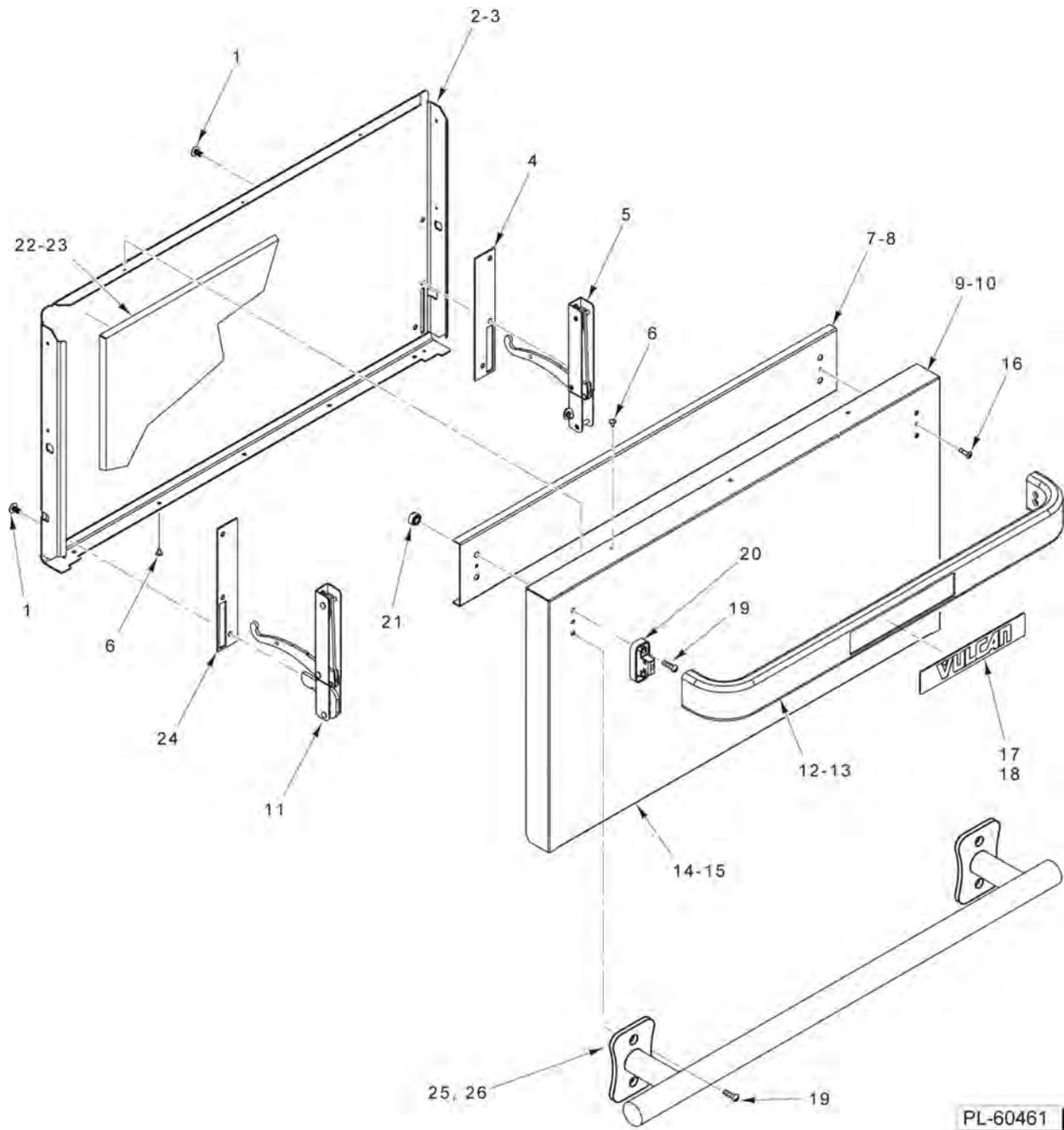
ILLUS. PL-59744	PART NO.	NAME OF PART	AMT.
1	00-921326	Side Liner - Left.....	1
2	00-921807	Panel - Side.....	1
3	00-921010-0000A	Oven Rack (30 In.).....	2
4	00-921611	Cover - Element.....	2
5	00-921799	Channel - Back Flue.....	1
6	00-921807	Panel - Side.....	1
7	00-413112-00012	Leg - Plate Mount (6 In.) (SST).....	4
8	00-921095	Insulation - Door Hinge.....	2
9	00-497029-00001	Door Hinge Stop.....	2
10	00-428179-000G1	Bracket - Kick Panel Mounting.....	2
11	00-921721	Kick Panel Assy.....	1
12	00-921015	Cavity Bottom (30 In.).....	1
13	00-723369	Mach. Screw 1/4-20 x 1/2 Phil. Truss Hd.....	4
14	00-921325	Side Liner - Right.....	1
15	00-921064	Guide - Rack.....	4
16	00-927511-00001	Plate - Element Mounting (30 In.).....	1
17	00-927510-00001	Pan - Element (30 In.).....	AR
18	00-958094-00001	Caster W/O Brake (6 In.).....	AR
19	00-958094-00002	Caster W/ Brake (6 In.).....	AR



**DOOR ASSEMBLY
(BEFORE 10/31/2014)**

**DOOR ASSEMBLY
(BEFORE 10/31/2014)**

ILLUS. PL-59740	PART NO.	NAME OF PART	AMT.
1	00-723369	Mach. Screw 1/4-20 x 1/2 Phil. Truss Hd.....	3
2	00-922030	Liner - Door (24 In.).....	1
3	00-921022	Liner - Door (30 In.).....	1
4	00-921033	Insulator - Door Hinge.....	1
5	00-497027-00001	Hinge - Door Spring (RH).....	1
6	00-730240	Mach. Screw #8 x 1/2.....	3
7	00-922134	Reinforcement - Door (24 In.).....	1
8	00-922133	Reinforcement - Door (30 In.).....	1
9	00-921781	Panel - Door (24 In.).....	1
10	00-921749	Panel - Door (30 In.).....	1
11	00-922118	Bracket - Handle.....	1
12	00-913159-00002	Kit - Door Handle (24 In.) (Vulcan).....	1
13	00-913159-00001	Kit - Door Handle (24 In.) (Wolf).....	1
14	00-913159-00004	Kit - Door Handle (30 In.) (Vulcan).....	1
15	00-913159-00003	Kit - Door Handle (30 In.) (Wolf).....	1
16	00-922118	Bracket - Handle.....	1
17	00-497027-00002	Hinge - Door Spring (LH).....	1
18	00-921033	Insulator - Door Hinge.....	1
19	00-730240	Mach. Screw #8 x 1/2.....	3
20	00-723369	Mach. Screw 1/4-20 x 1/2 Phil. Truss Hd.....	3
21	00-922131-0000A	Door Assy. (24 In.) (Incls. Items 1, 2, 4, 5, 6, 7, 9, 11, 12, & 16 thru 20).....	1
22	00-922132-0000A	Door Assy. (30 In.) (Incls. Items 1, 3, 4, 5, 6, 8, 10, 11, 14, & 16 thru 20).....	AR

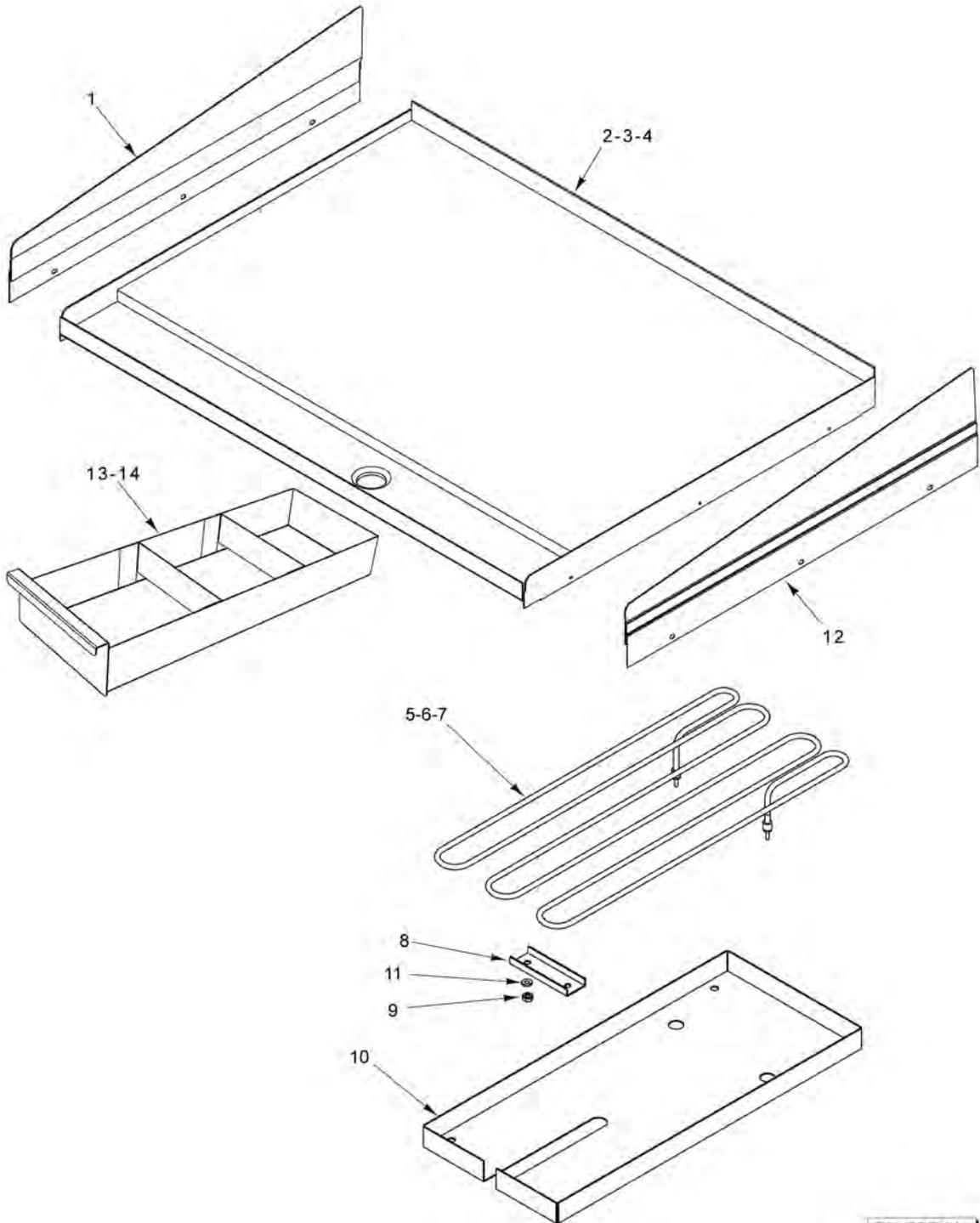


**DOOR ASSEMBLY
(AFTER 10/31/2014)**

**DOOR ASSEMBLY
(AFTER 10/31/2014)**

ILLUS. PL-60461	PART NO.	NAME OF PART	AMT.
1	00-723369	Mach. Screw 1/4-20 x 1/2 Phil. Truss Hd.....	AR
2	00-922030	Liner - Door (24 In.).....	1
3	00-921022	Liner - Door (30 In.).....	1
4	00-921033	Insulator - Door Hinge.....	1
5	00-497027-00001	Hinge - Door Spring (RH).....	1
6	00-730240	Mach. Screw #8 x 1/2.....	3
7	00-922702-00024	Reinforcment - Door (24 In.).....	1
8	00-922702-00030	Reinforcement - Door (30 In.).....	1
9	00-922701-00024	Panel - Door (24 In.).....	1
10	00-922701-00030	Panel - Door (30 In.).....	1
11	00-497027-00002	Hinge - Door Spring (LH).....	1
*12	00-922710-00024	Handle - Door (24 In.).....	1
*13	00-922710-00030	Handle - Door (30 In.).....	1
14	00-922700-00A24	Door Assy. (24 In.).....	1
15	00-922700-00A30	Door Assy. (30 In.).....	1
16	RS-033-05	Screw.....	2
*17	00-922712-00001	Logo (Vulcan).....	1
*18	00-922712-00002	Logo (Wolf).....	1
19	00-723369	Mach. Screw 1/4-20 x 1/2 Phil. Truss Hd.....	AR
*20	00-922711	Cap - Door Handle.....	2
21		Nut.....	4
22	00-923529	Insulation - Door (24 In.).....	1
23	00-921102	Insulation - Door (36 In.).....	1
24	00-921033	Insulator - Door Hinge.....	1
**25	00-961400-00024	Handle - Oven (24").....	1
**26	00-961400-00036	Handle - Oven (36").....	1

* Before June 2017
** June 2017 and After

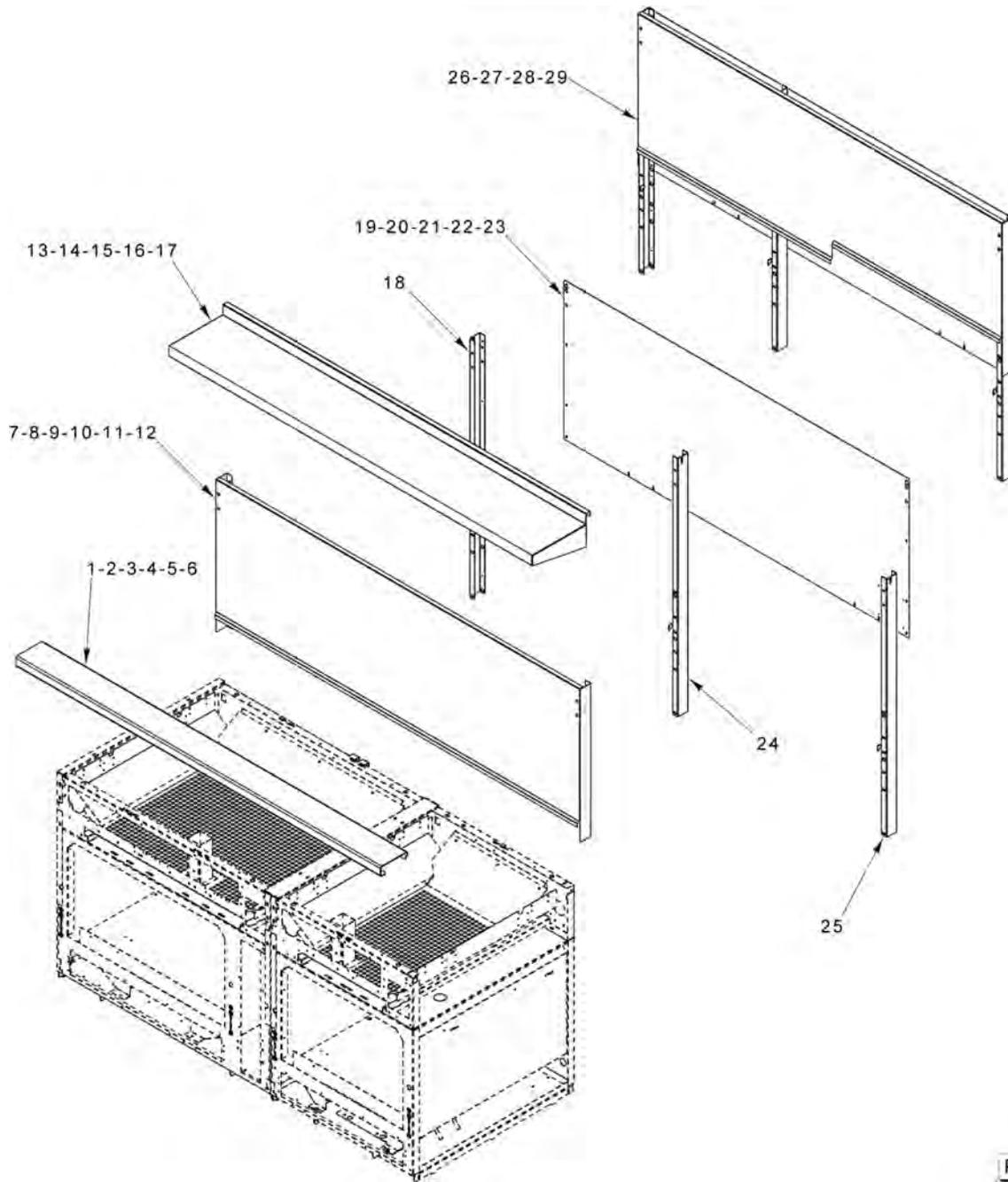


PL-59741

RANGE GRIDDLE

RANGE GRIDDLE

ILLUS.	PART NO.	NAME OF PART	AMT.
PL-59741			
1	00-926527-0000A	Splash Assy. - Outer (LH).....	1
2		Griddle Plate Assy. (12 In.).....	1
3	00-924511-0000A	Griddle Plate Assy. (24 In.).....	1
4	00-926500-0000A	Griddle Plate Assy. (36 In.).....	1
5	00-407774-00001	Element - Griddle (208 V.).....	AR
6	00-407774-00002	Element - Griddle (240 V.).....	AR
7	00-407774-00003	Element - Griddle (480 V.).....	AR
8	00-927415	Brace - Griddle Element.....	AR
9	NS-046-52	Nut Assy. 1/4-20 Hex.....	AR
10	00-421145	Cover - Griddle Element.....	AR
11		Lockwasher.....	AR
12	00-926513-0000A	Splash Assy. - Outer (RH).....	1
13	00-922354-0SLIM	Grease Can 12 In.....	1
14	00-922354	Grease Can 24 In. & 36 In.....	1

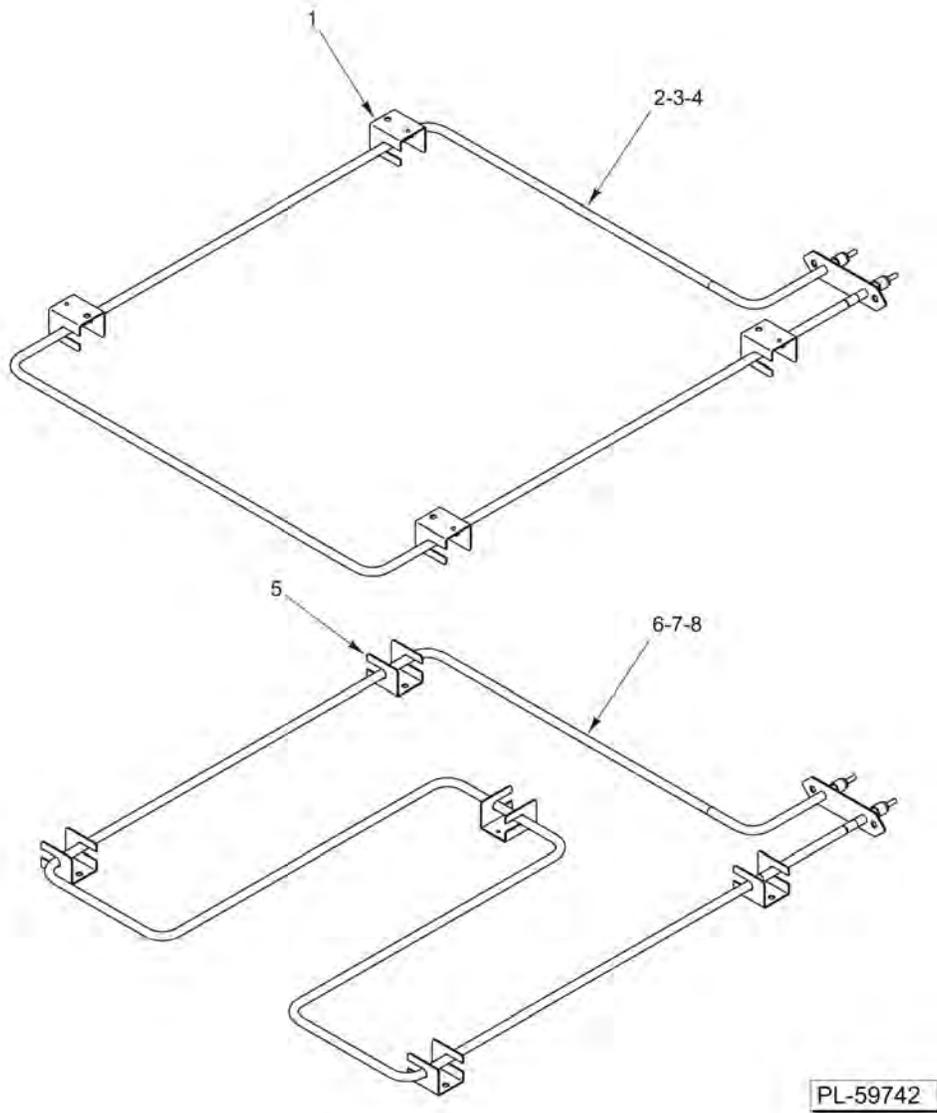


PL-59745

**BACKSPLASH, SHELF, AND BULL NOSE
(ALL SIZES)**

**BACKSPLASH, SHELF, AND BULL NOSE
(ALL SIZES)**

ILLUS. PL-59745	PART NO.	NAME OF PART	AMT.
1	00-921884-00012	Bull Nose (12 In.).....	1
2	00-921884-00024	Bull Nose (24 In.).....	1
3	00-921884-00036	Bull Nose (36 In.).....	1
4	00-921884-00048	Bull Nose (48 In.).....	1
5	00-921884-00060	Bull Nose (60 In.).....	1
6	00-921884-00072	Bull Nose (72 In.).....	1
7	00-921317	Backsplash (12 In.).....	1
8	00-921053-00024	Backsplash (24 In.).....	1
9	00-921053-00036	Backsplash (36 In.).....	1
10	00-921053-00048	Backsplash (48 In.).....	1
11	00-921053-00060	Backsplash (60 In.).....	1
12	00-921053-00072	Backsplash (72 In.).....	1
13	00-921730-00024	Shelf (24 In.).....	1
14	00-921730-00036	Shelf (36 In.).....	1
15	00-921730-00048	Shelf (48 In.).....	1
16	00-921730-00060	Shelf (60 In.).....	1
17	00-921730-00072	Shelf (72 In.).....	1
18	00-921728	Support - Backsplash (LH).....	1
19	00-921713	Panel - Back (12 In.).....	1
20	00-923525	Panel - Back (24 In.).....	1
21	00-921054	Panel - Back (36 In.) (Use two for 72 In. Units).....	1
22	00-923009	Panel - Back (48 In.).....	1
23	00-929007	Panel - Back (60 In.).....	1
24	00-921729	Support - Backsplash (RH) (Used on 60 & 72 In. Units).....	1
25	00-921729	Support - Backsplash (RH).....	1
26	00-961714-0036G	Backsplash Assy. (36 In.) (Used with Griddle).....	1
27	00-961714-36G24	Backsplash Assy. (36 In.) (Used with RH Griddle).....	1
28	00-961714-60G24	Backsplash Assy. (60 In.) (Used with RH Griddle).....	1
29	00-961714-72G36	Backsplash Assy. (72 In.) (Used with RH Griddle).....	1



OVEN ELEMENT

OVEN ELEMENT

ILLUS.	PART NO.	NAME OF PART	AMT.
PL-59742			
1	00-412925-00001	Clamp - Element.....	AR
2	00-927538-0004S	Oven Element - Upper (208 V.).....	AR
3	00-927538-0005S	Oven Element - Upper (240 V.).....	AR
4	00-927538-0006S	Oven Element - Upper (480 V.).....	AR
5	00-412925-00001	Clamp - Element.....	AR
6	00-927538-0001S	Oven Element - Lower (208 V.).....	AR
7	00-927538-0002S	Oven Element - Lower (240 V.).....	AR
8	00-927538-0003S	Oven Element - Lower (480 V.).....	AR

VULCAN CATALOG OF REPLACEMENT PARTS

EV SERIES ELECTRIC RESTAURANT RANGES

MODEL

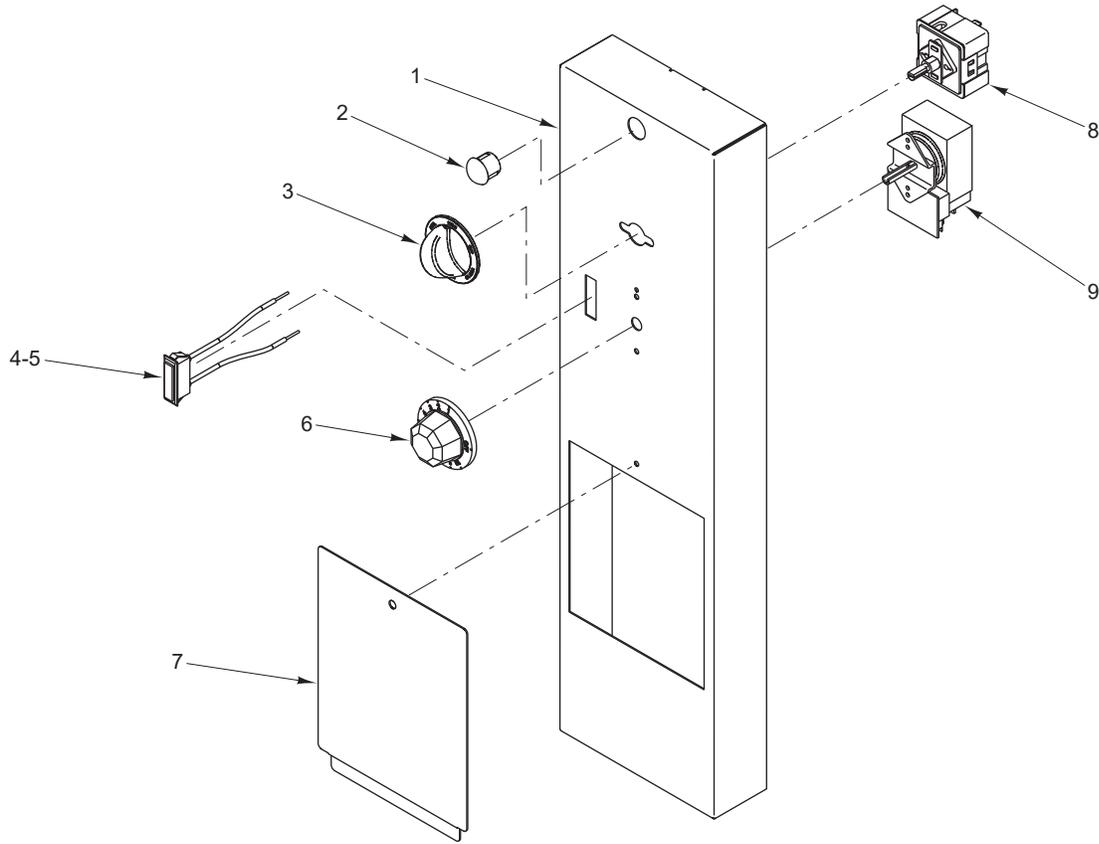
<i>EV12</i>	<i>ML-137304</i>
<i>EV24S</i>	<i>ML-137290</i>
<i>EV36S</i>	<i>ML-137303</i>
<i>EV60SS</i>	<i>ML-137295</i>



For additional information on Vulcan-Hart Company or to locate an authorized parts and service provider in your area, visit our website at www.vulcanequipment.com

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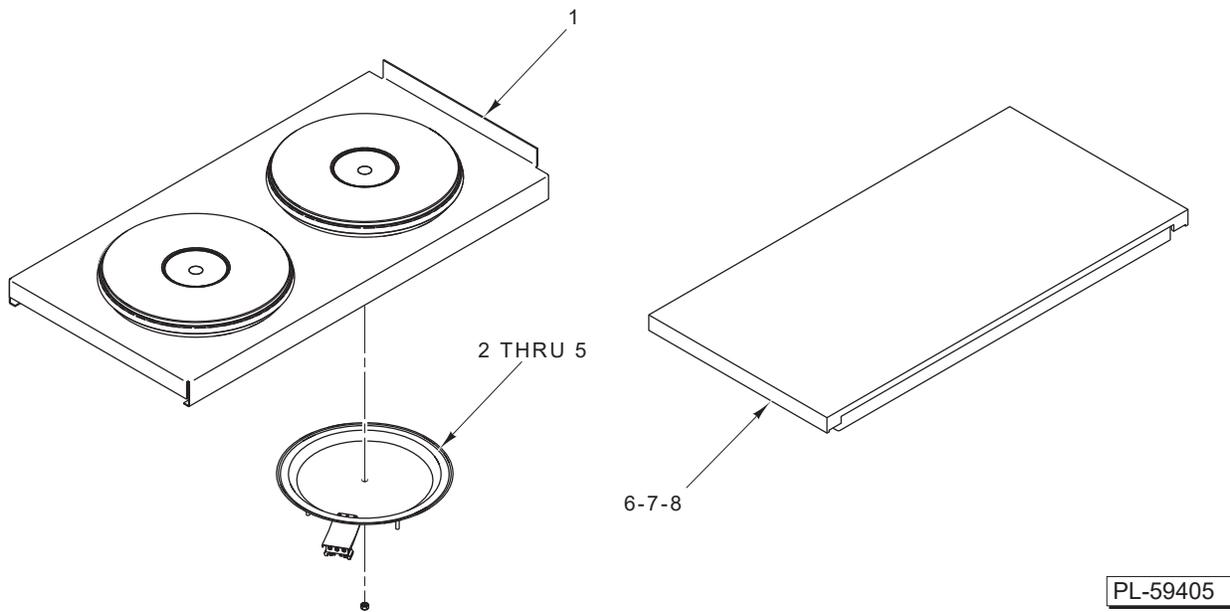
3	OVEN CONTROLS (ML-137295 & ML-137303)
4	PLATES
5	ELECTRICAL COMPONENTS (ML-137290 & ML-137295)
6	ELECTRICAL COMPONENTS (ML-137303)
7	CONTROLS AND ELECTRICAL COMPONENTS (ML-137304)
8	OVEN AND RANGE CONTROLS (ML-137290)
9	RANGE CONTROLS (ML-137295 & ML-137303)
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13	BODY (ML-137290, ML-137295, & ML-137303)
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19	OVEN RACKS (ML-137290, ML-137295, & ML-137303)
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22	WIRING DIAGRAMS
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PL-59466

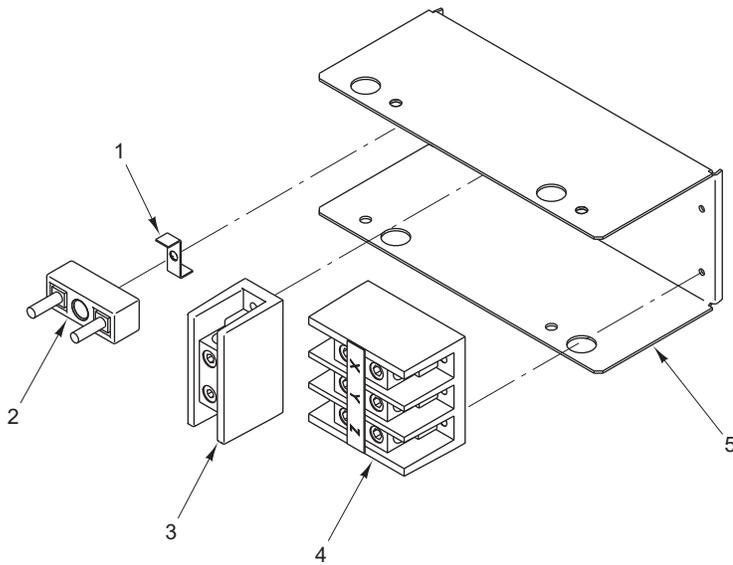
OVEN CONTROLS (ML-137295 & ML-137303)

ILLUS.	PART NO.	NAME OF PART	AMT.
PL-59466			
1	00-927506	Control Panel – Vulcan	AR
2	00-928068-00001	Plug.....	1
3	00-412251-00001	Knob – Infinite Switch (Not Required On 480 V. Units).....	AR
4	00-428900-000G3	Light – Indicator	AR
5	00-417876-00001	Resistor (300 K., 1/4 W.) (480 V. Units).....	1
6	00-418060-00002	Dial – Thermostat.....	AR
7	00-927507	Door – Access.....	AR
8	00-411503-00004	Switch – Infinite Load Control (Not Required On 480 V. Units)	AR
9	00-411506-00014	Thermostat (175-550 F.)	AR
	00-927533-0000G1	Harness – Main (LH).....	1
	00-927541-0000G1	Harness – Power	1



PLATES

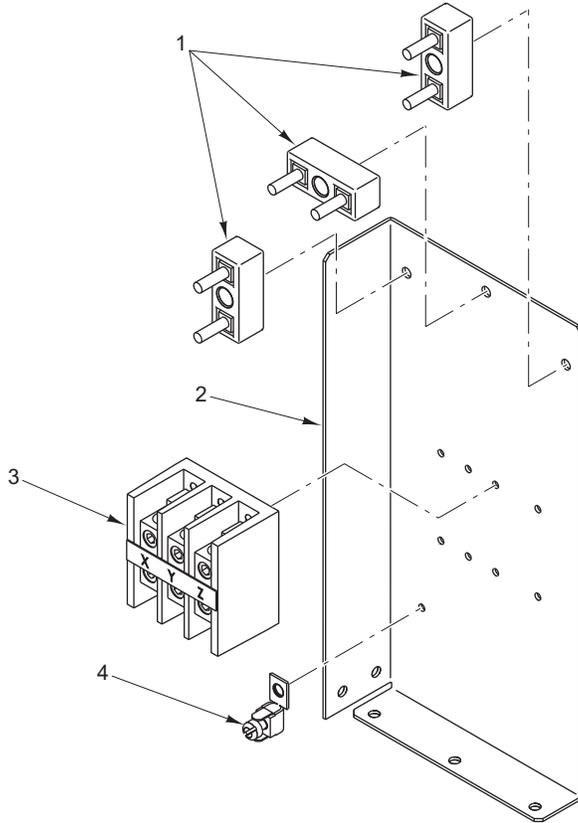
ILLUS.	PART NO.	NAME OF PART	AMT.
PL-59405			
1	00-927501-0000A	Plate – Aeration (French Plate).....	AR
2	00-421240-00001	Plate – French E.G.O. (208 V.).....	AR
3	00-421240-00002	Plate – French E.G.O. (240 V.).....	AR
4	00-421240-00003	Plate – French E.G.O. (480 V.).....	AR
5	00-415048-00001	Clamp	AR
6	00-421320-00001	Top – Hot (208 V.).....	AR
7	00-421320-00002	Top – Hot (240 V.).....	AR
8	00-421320-00003	Top – Hot (480 V.).....	AR
	00-497042-000G2	French Plate (208/240 V.).....	AR
	00-927601-000G1	Harness – French Plate (36 In.) (208/240 V.).....	AR
	00-927601-000G2	Harness – French Plate (36 In.) (480 V.).....	AR



PL-59409

ELECTRICAL COMPONENTS (ML-137290 & ML-137295)

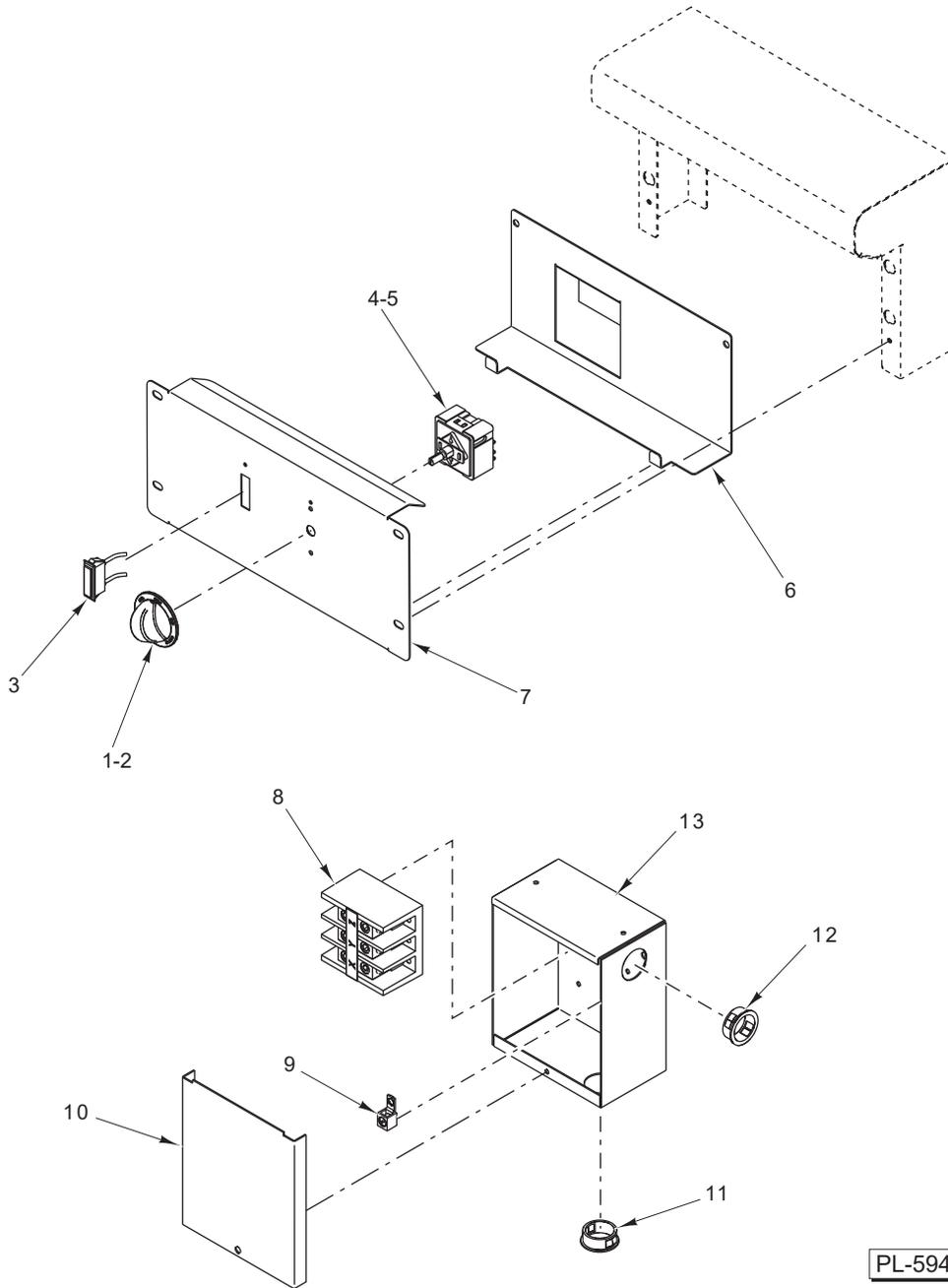
ILLUS.	PART NO.	NAME OF PART	AMT.
PL-59409			
1	00-497218-00001	Clip – Porcelain	1
2	00-414881-00001	Block – Porcelain	1
3	00-410472-00009	Block – Terminal (1-Pole)	1
4	00-410472-00008	Block – Terminal (3-Pole)	1
5	00-927514	Holder – Terminal Blocks	1



PL-59467

ELECTRICAL COMPONENTS (ML-137303)

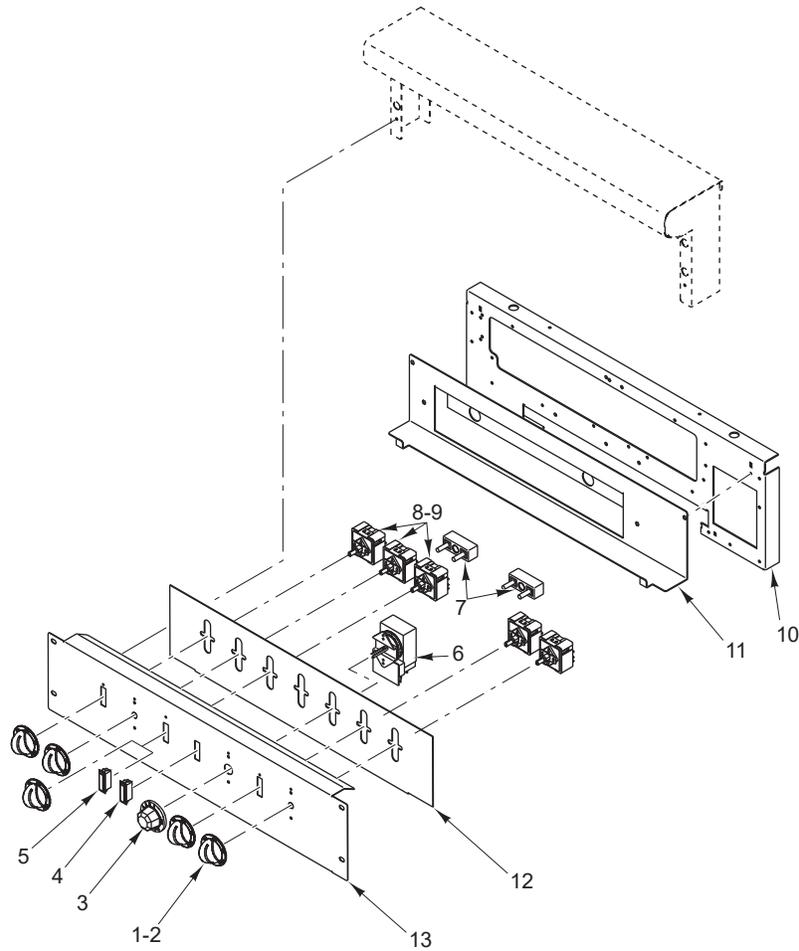
ILLUS.	PART NO.	NAME OF PART	AMT.
PL-59467			
1	00-414881-00001	Block – Porcelain	3
2	00-927509	Bracket – Terminal Block Mount	1
3	00-410472-00008	Block – Terminal (3-Pole).....	1
4	00-417856-00001	Lug – Ground (With Set Screw).....	1



PL-59410

CONTROLS AND ELECTRICAL COMPONENTS (ML-137304)

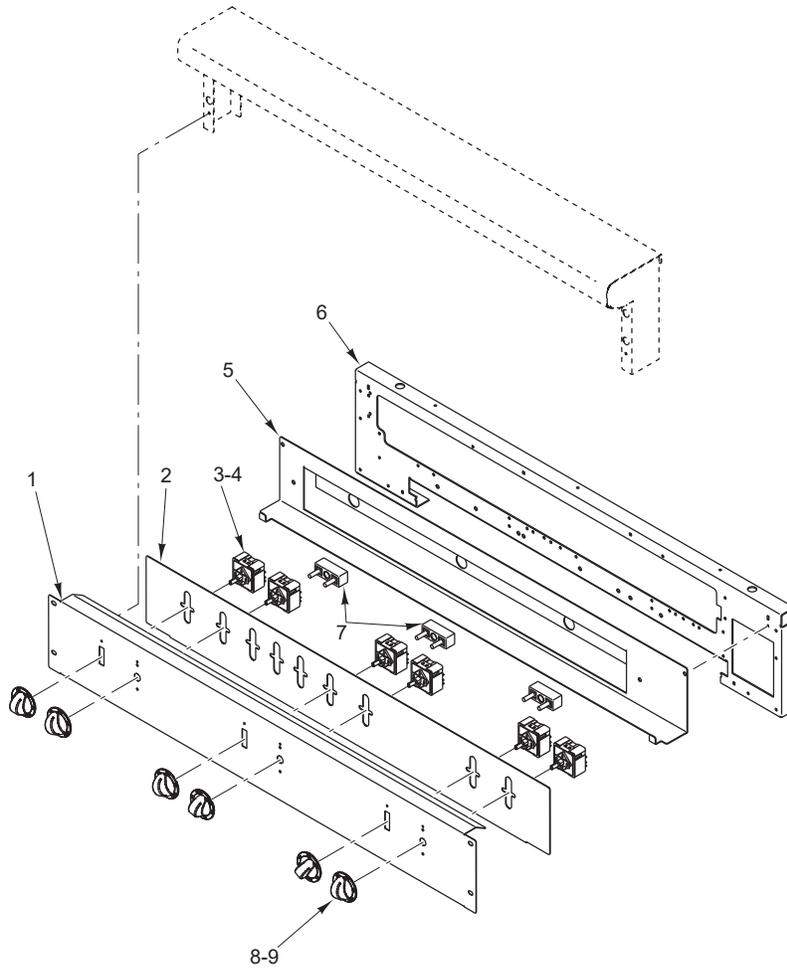
ILLUS.	PART NO.	NAME OF PART	AMT.
PL-59410			
1	00-412251-00001	Knob – Infinite Switch (208/240 V.).....	1
2	00-412251-00003	Knob – Electric (480 V.).....	1
3	00-499974-00001	Plug – Light.....	1
4	00-411503-00004	Switch – Infinite Load Control (208/240 V.).....	1
5	00-355798-00001	Switch – 4-Position Range (480 V.).....	1
6	00-927455	Bracket – Mount.....	1
7	00-497495	Cover – Manifold.....	1
8	00-410472-00008	Block – Terminal (3-Pole).....	1
9	00-417856-00001	Lug – Ground (With Set Screw).....	1
10	00-499076	Lid – Power Supply.....	1
11	FE-017-16	Bushing – Electrical Snap.....	1
12	FE-017-16	Bushing – Electrical Snap.....	1
13	00-499075	Box – Main Power.....	1



PL-59472

OVEN AND RANGE CONTROLS (ML-137290)

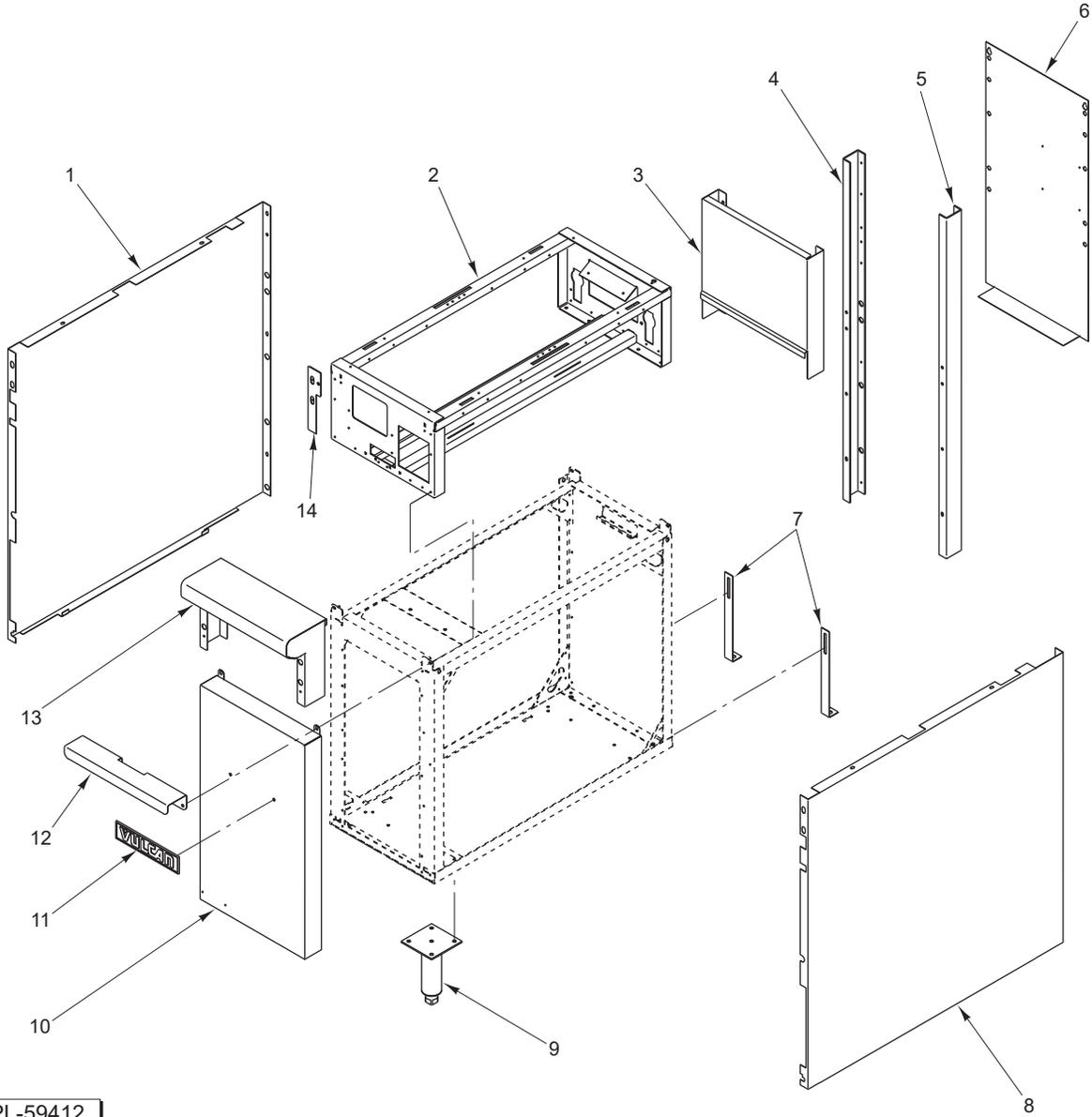
ILLUS.	PART NO.	NAME OF PART	AMT.
1	00-412251-00001	Knob – Infinite Switch	AR
2	00-412251-00003	Knob – Electric (480 V.)	AR
3	00-418060-00002	Dial – Thermostat.....	AR
4	00-499974-00001	Plug – Light (480 V.)	AR
5	00-499974-00001	Plug – Light (480 V.)	AR
6	00-411506-00014	Thermostat (175-550 F.)	AR
7	00-414881-00001	Block – Porcelain	AR
8	00-411503-00004	Switch – Infinite (208/240 V.)	AR
9	00-355798-00001	Switch – 4-Position Range (480 V.)	AR
10	00-924502-0000A	Frame Assy. – Top	1
11	00-927406	Bracket – Mount.....	1
12	00-927408	Panel – Stiffener	1
13	00-927519	Cover	1



PL-59411

RANGE CONTROLS (ML-137295 & ML-137303)

ILLUS.	PART NO.	NAME OF PART	AMT.
PL-59411			
1	00-927502	Cover	1
2	00-927503	Panel – Stiffener	1
3	00-411503-00004	Switch – Infinite (208/240 V.)	AR
4	00-355798-00001	Switch – 4-Position Range (480 V.)	AR
5	00-927498	Bracket – Mount.....	1
6	00-925003-0000A	Frame Assy. – Top	1
7	00-417934	Block	AR
8	00-412251-00001	Knob – Infinite Switch	AR
9	00-412251-00003	Knob – Electric (480 V.)	AR

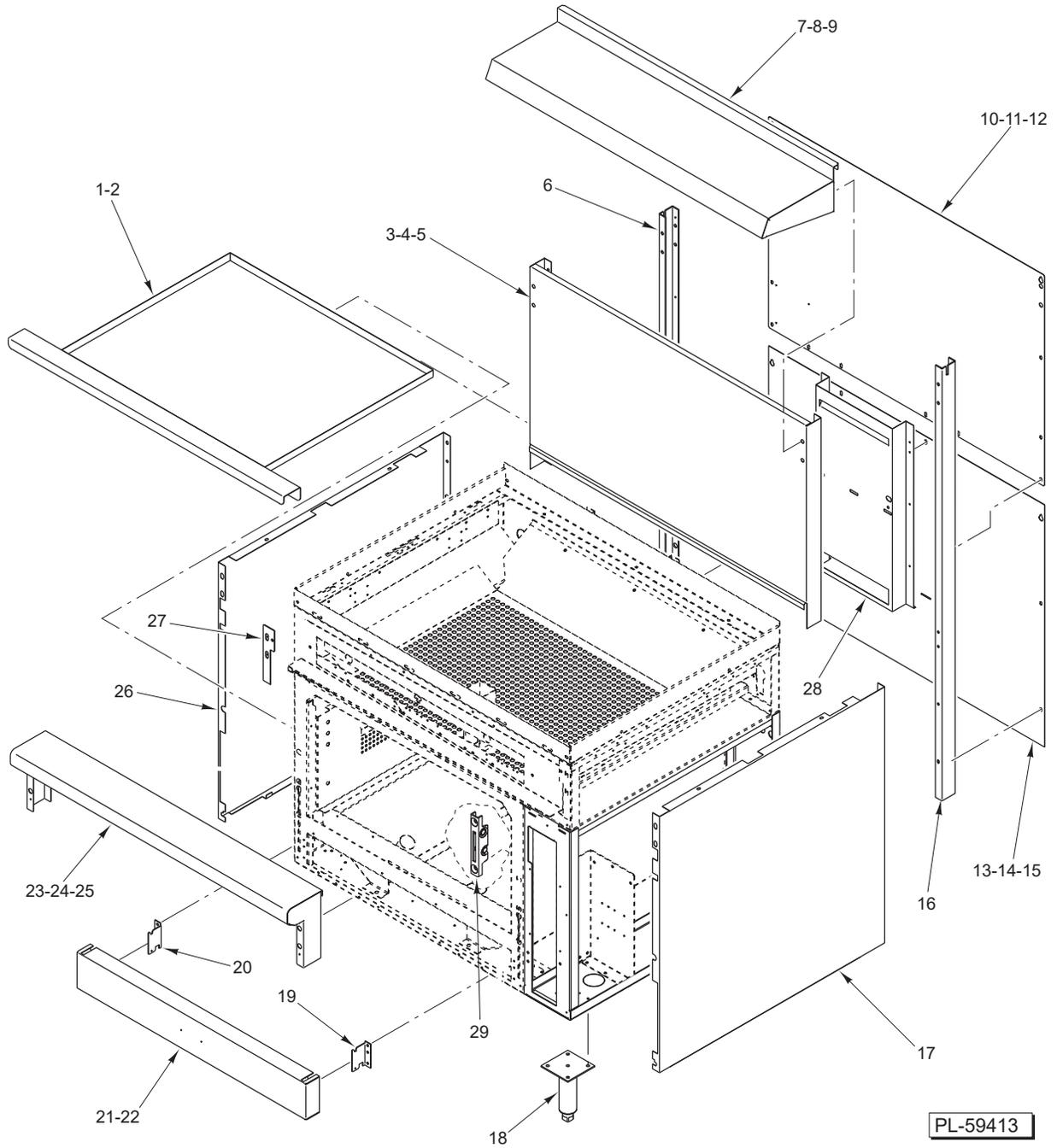


PL-59412

BODY (ML-137304)

BODY (ML-137304)

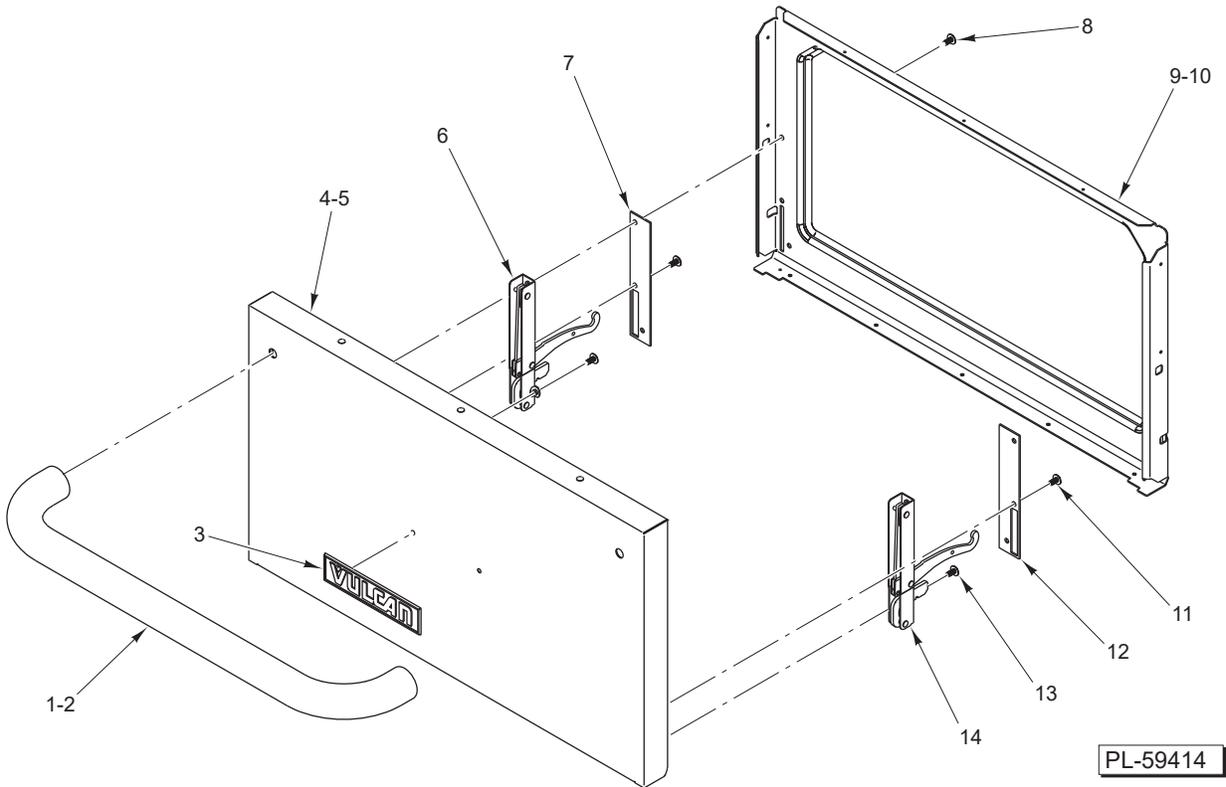
ILLUS.	PART NO.	NAME OF PART	AMT.
PL-59412			
1	00-921048	Panel – Side (LH)	1
2	00-924002-0000A	Frame Assy.	1
3	00-921314	Panel – Backsplash	1
4	00-921133	Channel	1
5	00-921134	Channel	1
6	00-927460	Heat Shield – Rear	1
7	00-927459	Bracket – Anchor	2
8	00-921047	Panel – Side (RH).....	1
9	00-413112-00012	Leg (6 In.) (SST)	4
10	00-927464	Cover – Front.....	1
11	00-928020	Nameplate – Vulcan (10 In.).....	1
12	00-927462	Handle – Crumb Tray.....	1
13	00-921017-0000A	Bullnose	1
14	00-921058	Gasket – Bullnose.....	2



BODY (ML-137290, ML-137295, & ML-137303)

BODY (ML-137290, ML-137295, & ML-137303)

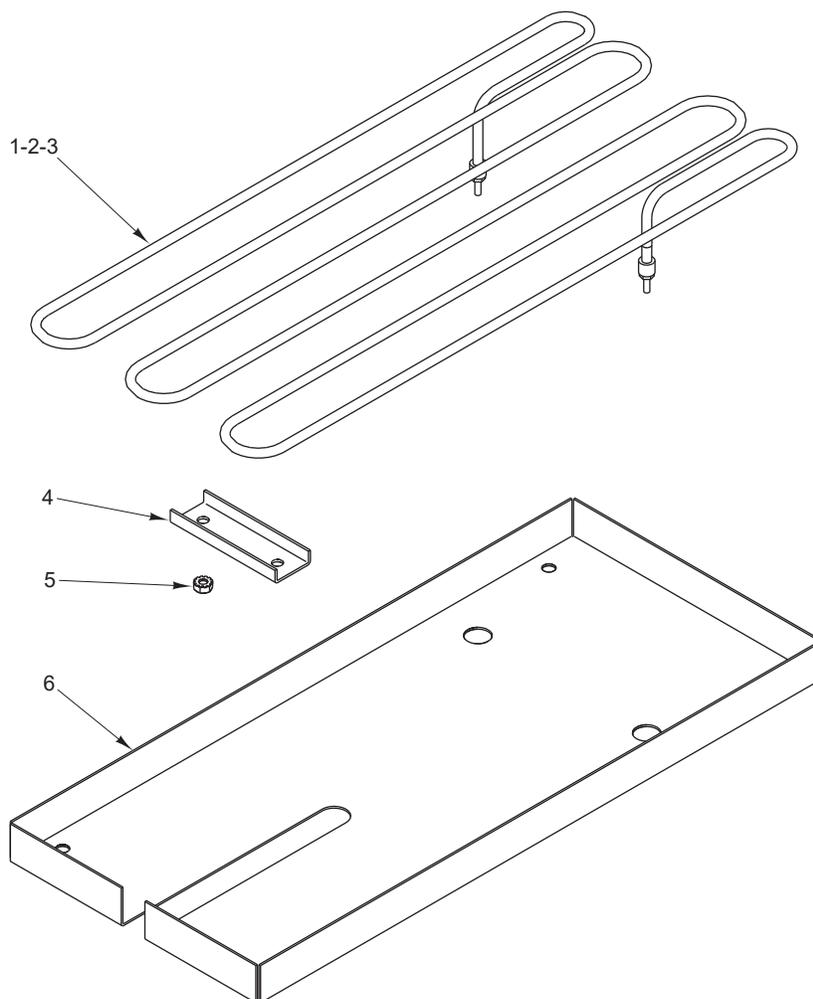
ILLUS. PL-59413	PART NO.	NAME OF PART	AMT.
1	00-921142-0000A	Tray – Crumb (24 In. Griddle) (ML-137290)	1
2	00-921044-0000A	Tray – Crumb (36 In. French Plate & Hot Top) (ML-137295 & ML-137303)	1
3	00-923507	Back Splash (24 In.) (ML-137290)	1
4	00-921053	Back Splash (36 In.) (ML-137303)	1
5	00-929006	Back Splash (60 In.) (ML-137295)	1
6	00-921051	Channel – Bayonet Back (LH)	1
7	00-923506-0000A	Shelf Assy. (24 In.) (ML-137290)	1
8	00-921038-0000A	Shelf Assy. (36 In.) (ML-137303)	1
9	00-929005-0000A	Shelf Assy. (60 In.) (ML-137295)	1
10	00-927404	Panel – Rear (ML-137290)	1
11	00-921054	Panel – Rear (ML-137303)	1
12	00-929007	Panel – Rear (ML-137295)	1
13	00-927418	Panel – Lower Rear Flue (24 In.) (ML-137290)	1
14	00-927468	Panel – Lower Rear Flue (36 In.) (ML-137303)	1
15	00-927416	Panel – Lower Rear Flue (60 In.) (ML-137295)	1
16	00-921052	Channel – Bayonet Back (RH)	AR
17	00-921047	Panel – Side (RH)	1
18	00-413112-00012	Leg (6 In.) (SST)	AR
19	00-921204	Bracket – Kick Panel Mounting (RH)	1
20	00-921203	Bracket – Kick Panel Mounting (LH)	1
21	00-921305-0000A	Kick Panel (24 In.) (ML-137290 & ML-137295)	1
22	00-921309-0000A	Kick Panel (36 In.) (ML-137303)	1
23	00-925490-0000A	Bullnose (24 In.) (ML-137290)	1
24	00-921017-0000A	Bullnose (36 In.) (ML-137303)	1
25	00-921005-0000A	Bullnose (60 In.) (ML-137295)	1
26	00-921048	Panel – Side (LH)	1
27	00-921058	Gasket – Bullnose	2
28	00-921083	Flue – Exhaust	1
29	00-497029-00001	Hinge – Door Stop	2
	00-927409	Guard – Thermostat Bulb	1



DOOR (ML-137290, ML-137295, & ML-137303)

DOOR (ML-137290, ML-137295, & ML-137303)

ILLUS. PL-59414	PART NO.	NAME OF PART	AMT.
1	00-941345	Handle –Oven (ML-137290 & ML-137295).....	AR
2	00-428618-00001	Handle – Oven (ML-137303)	1
3	00-928020	Nameplate – Vulcan (10 In.)	1
4	00-921302	Panel – Door (24 In.) (ML-137290 & ML-137295)	AR
5	00-921288	Panel – Door (30 In.) (ML-137303).....	1
6	00-497027-00002	Hinge Assy. (LH)	1
7	00-921033	Insulation – Door Hinge	1
8	00-723369	Mach. Screw 1/4-20 x 1/2 Phil. Truss Hd.....	AR
9	00-922030	Liner – Door (24 In.) (ML-137290 & ML-137295)	AR
10	00-921090	Liner – Door (30 In.) (ML-137303)	1
11	00-723369	Mach. Screw 1/4-20 x 1/2 Phil. Truss Hd.....	AR
12	00-921033	Insulation – Door Hinge	1
13	00-723369	Mach. Screw 1/4-20 x 1/2 Phil. Truss Hd.....	AR
14	00-497027-00001	Hinge Assy. (RH).....	1
	00-923529	Insulation – Door (24 In.)	AR
	00-921102	Insulation – Door (30 In.)	AR
	00-921303-0000A	Door Assy. (ML-137290 & ML-137295).....	AR
	00-921287-0000A	Door Assy. (ML-137303).....	1

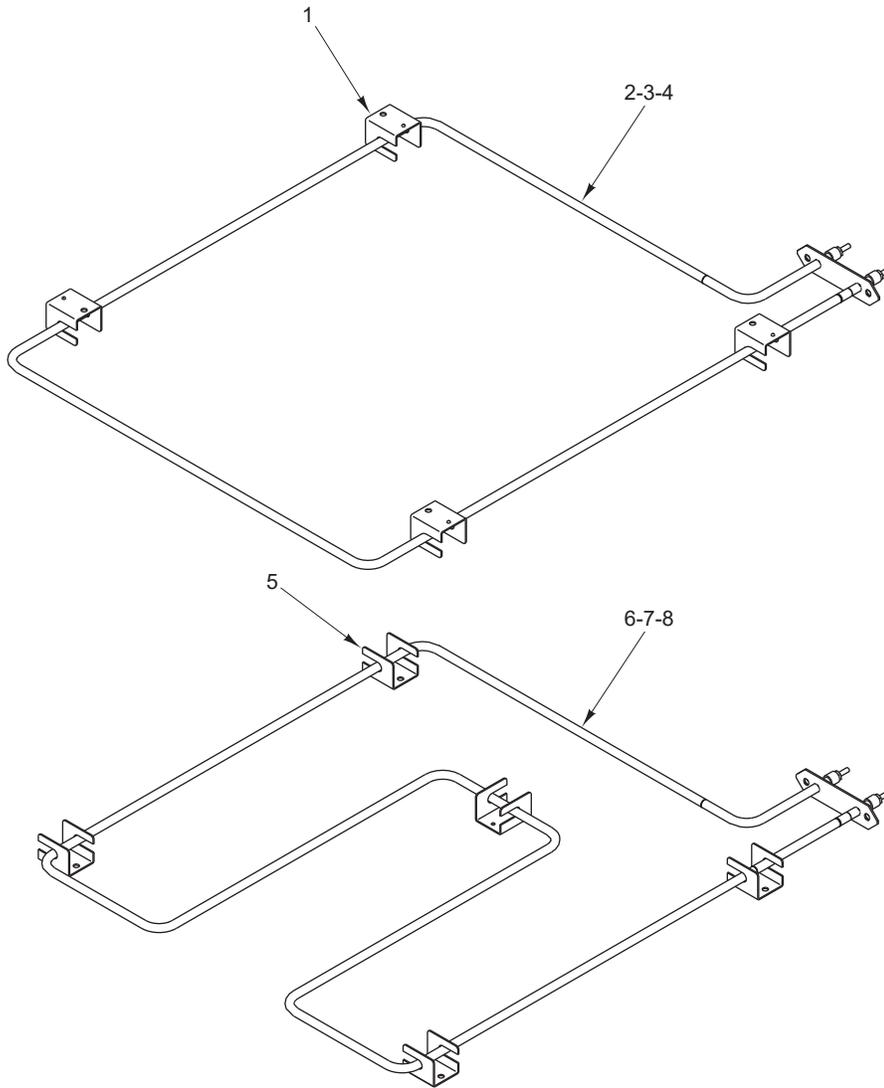


PL-59469

RANGE TOP ELEMENTS

RANGE TOP ELEMENTS

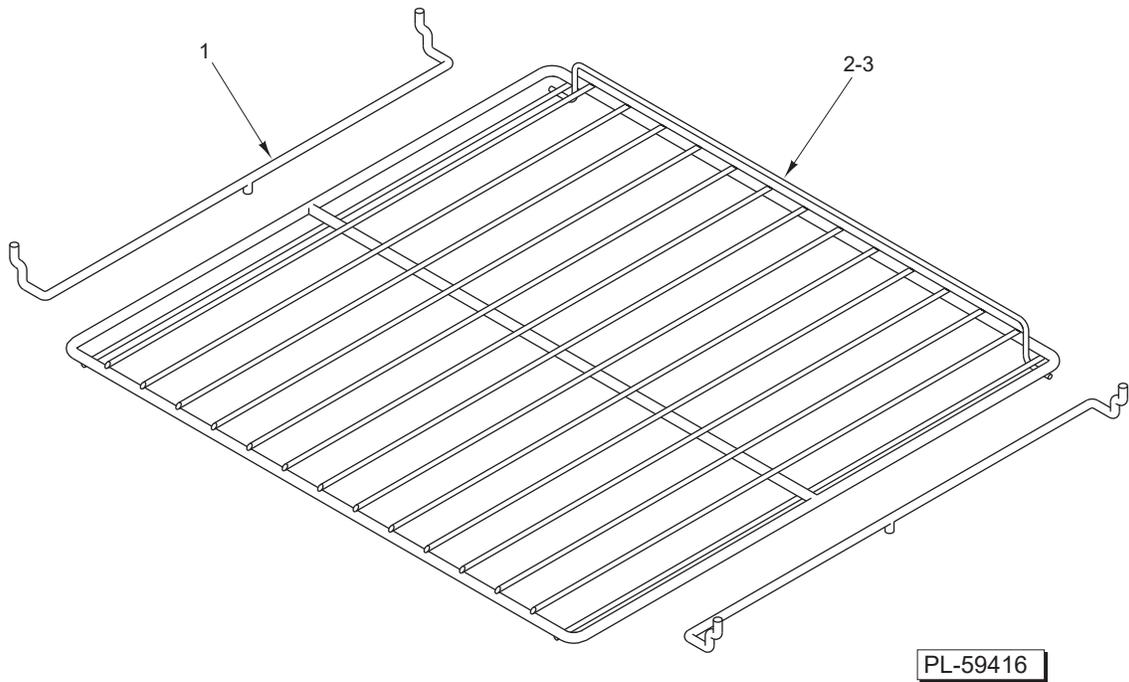
ILLUS.	PART NO.	NAME OF PART	AMT.
1	00-407774-00001	Element – Griddle (208 V.).....	AR
2	00-407774-00002	Element – Griddle (240 V.).....	AR
3	00-407774-00003	Element – Griddle (480 V.).....	AR
4	00-927415	Brace – Griddle Element.....	AR
5	NS-046-52	Nut Assy. 1/4-20 Hex.....	AR
6	00-421145	Cover – Griddle Element.....	AR
	00-927448-0000A	Griddle Assy. (12 In.) (208 V.).....	1
	00-927475-0000A	Griddle Assy. (12 In.) (240 V.).....	1
	00-927476-0000A	Griddle Assy. (12 In.) (480 V.).....	1
	00-927400-0000A	Griddle Assy. (24 In.) (208 V.).....	1
	00-927412-0000A	Griddle Assy. (24 In.) (240 V.).....	1
	00-927413-0000A	Griddle Assy. (24 In.) (480 V.).....	1
	00-927450-0000A	Griddle Assy. (36 In.) (208 V.).....	1
	00-927477-0000A	Griddle Assy. (36 In.) (240 V.).....	1
	00-927478-0000A	Griddle Assy. (36 In.) (480 V.).....	1
	00-497044-000G2	Harness – Griddle.....	1
	00-497376-000G2	Harness – Griddle (ML-137290 & ML-137304).....	1
	00-421320-00001	Top – Hot (208 V.) (ML-137290, ML-137303, & ML-137304).....	AR
	00-412320-00002	Top – Hot (240 V.).....	AR
	00-412320-00003	Top – Hot (480 V.).....	AR



PL-59415

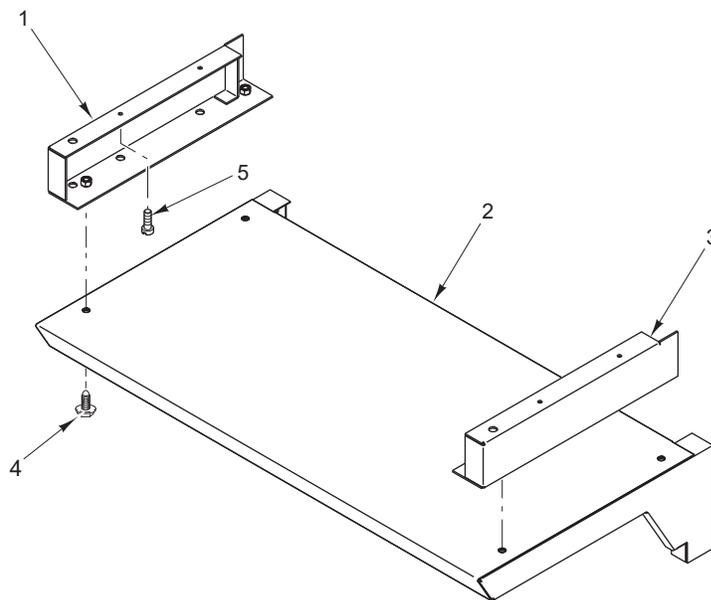
OVEN ELEMENTS (ML-137290, ML-137295, & ML137303)

ILLUS.	PART NO.	NAME OF PART	AMT.
PL-59415			
1	00-412925-00001	Clamp – Element	AR
2	00-927538-0004S	Oven Element Upper (208 V.).....	AR
3	00-927538-0005S	Oven Element Upper (240 V.).....	AR
4	00-927538-0006S	Oven Element Upper (480 V.).....	AR
5	00-412925-00001	Clamp – Element	AR
6	00-927538-0001S	Oven Element Lower (208 V.).....	AR
7	00-927538-0002S	Oven Element Lower (240 V.).....	AR
8	00-927538-0003S	Oven Element Lower (480 V.).....	AR



OVEN RACKS (ML-137290, ML-137295, & ML-137303)

ILLUS.	PART NO.	NAME OF PART	AMT.
PL-59416			
1	00-921064	Guide – Rack	AR
2	00-923508-0000A	Rack – Oven (24 In.) (ML-137290 & ML-137295)	AR
3	00-921010-0000A	Rack – Oven (ML-137303)	AR

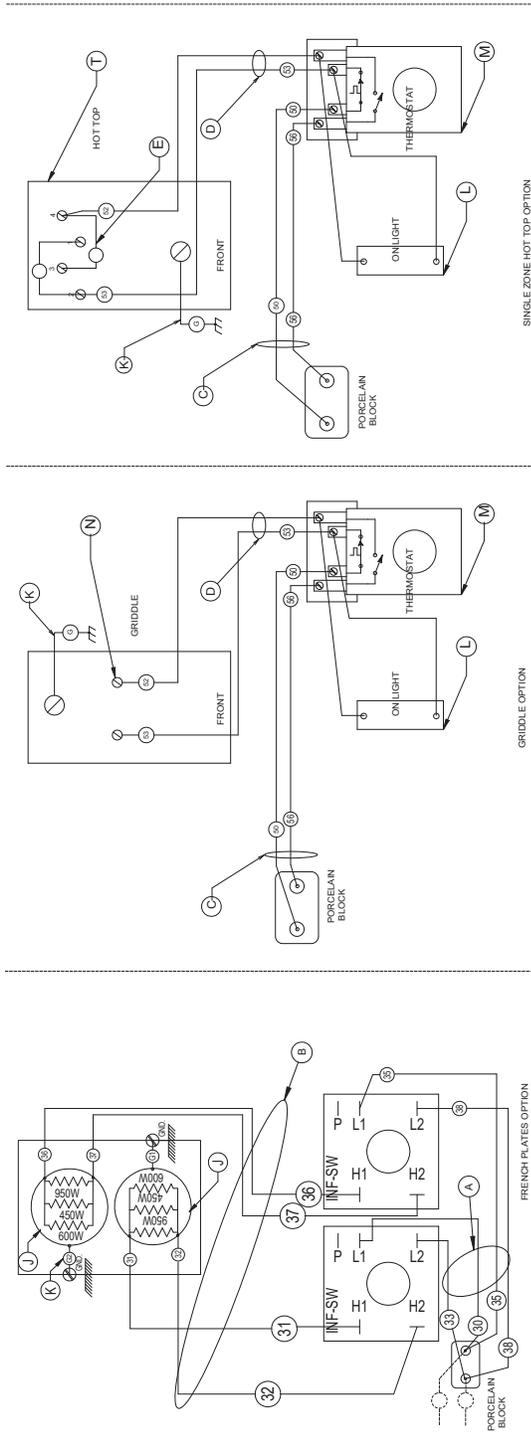


PL-59517

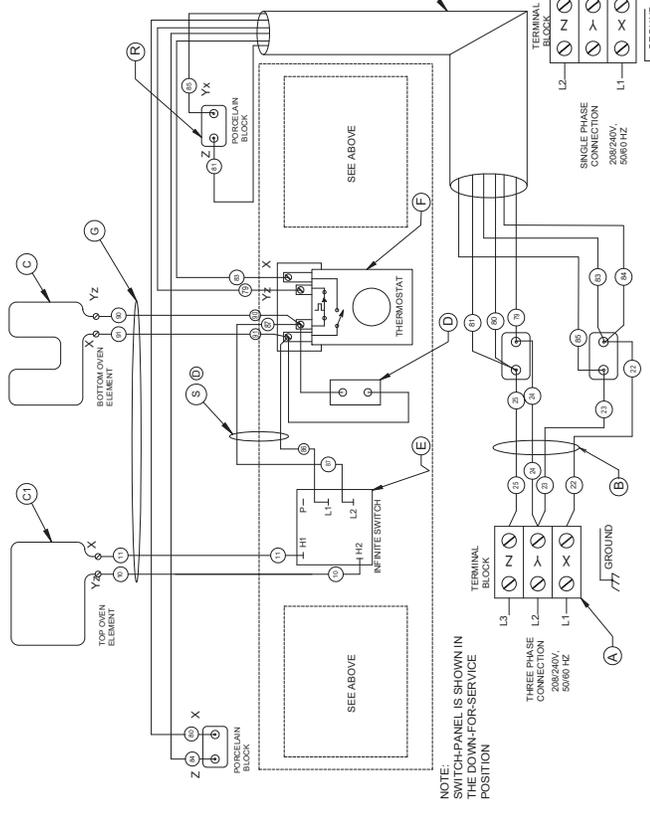
REINFORCED SHELF

REINFORCED SHELF

ILLUS. PL-59517	PART NO.	NAME OF PART	AMT.
1	00-921608-0000A	Bracket – Mounting Assy. (LH).....	1
2	00-921130-0000A	Shelf – Reinforced	1
3	00-921607-0000A	Bracket – Mounting Assy. (RH).....	1
4	00-730110	Bolt ³ / ₈ -16 x ³ / ₄ Hex Hd.....	4
5	00-730228	Self-Tapping Screw 10-24 x ¹ / ₂ Phil. Hex Hd.....	4



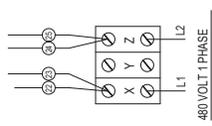
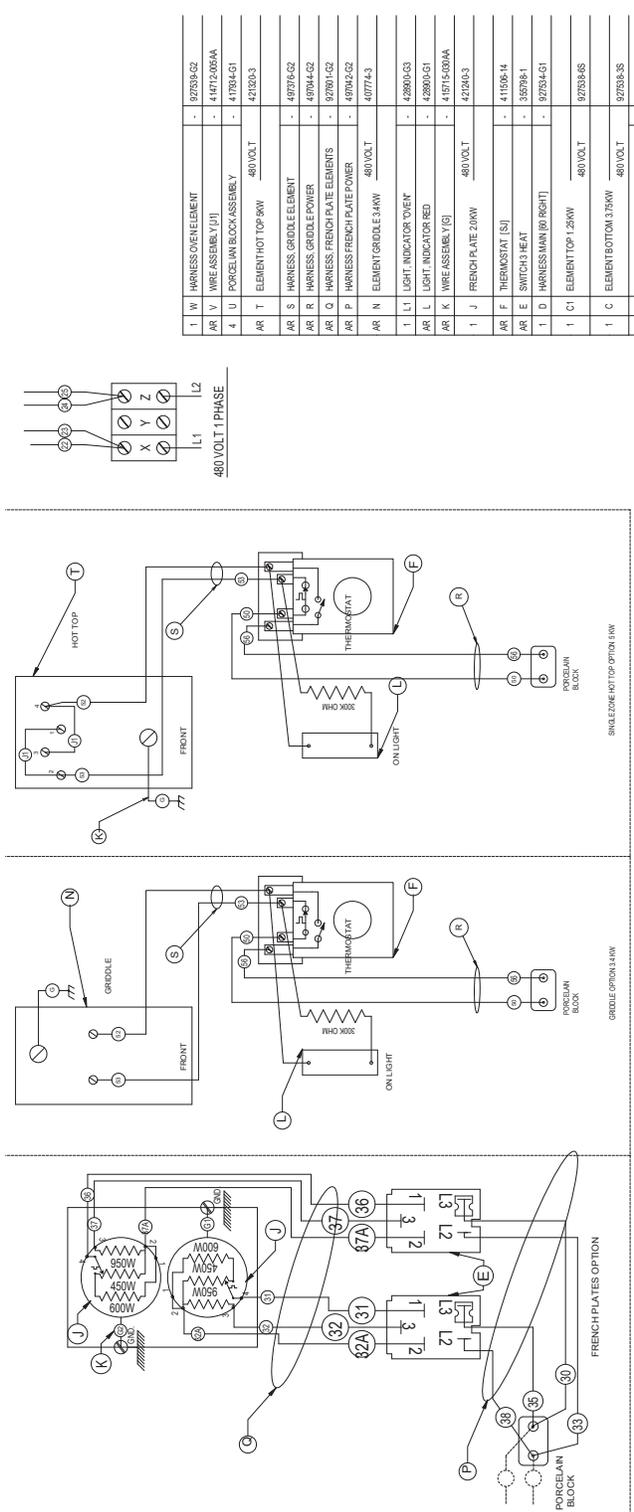
CONFIG	KW		208V (AMPS)			240V (AMPS)				
	XY	YZ	1-PH	X	Y	Z	1-PH	X	Y	Z
[]	5.0	3.4	11.8	35.0	28.3	56.7	30.3	30.3	24.5	49.2
[]	5.0	3.4	12.4	37.5	30.8	59.6	32.5	30.3	26.7	51.7
[]	5.0	4.0	13.0	37.5	33.3	62.5	32.5	32.5	28.9	54.2
[]	5.0	5.0	14.0	37.5	41.6	67.5	32.5	36.1	32.5	58.3
[]	5.0	3.4	13.4	41.6	35.0	64.4	36.1	30.3	30.3	55.8
[]	5.0	4.0	14.0	41.6	37.5	67.3	36.1	32.5	32.5	58.3
[]	5.0	5.0	15.0	41.6	41.6	72.1	36.1	36.1	36.1	62.5



REQ. IT.	DESCRIPTION	PART NO.
1	S Wires, Top Elem Pwr	927599
4	R Porcelain Block Assembly	417834-G1
1	N Harness Main [Rd Rght]	927534-G1
1	H Harness Main [Rd Lt]	927533-G1
2	G Harness Oven Element	927538-G1
2	F Thermostat Oven[S]	41856-14
2	E Switch Infinite	41893-4
2	D Light Indicator Assembly "Oven"	42890-G3
2	C1 Element Top 1250W	927538-4S
2	C Element Bottom 3750W	927538-5S
2	C Element Bottom 3750W	927538-1S
2	C Element Bottom 3750W	927538-2S
1	B1 Harness Power [R]	927541-G1
1	B Harness Power [L]	927540-G1
-	A1 Terminal Block 1 Pole/200/300	410872-9
2	A Terminal Block 3 Pole	410872-8

EV & EH 24" RANGES 208-240 VOLTS (927530 REV E)

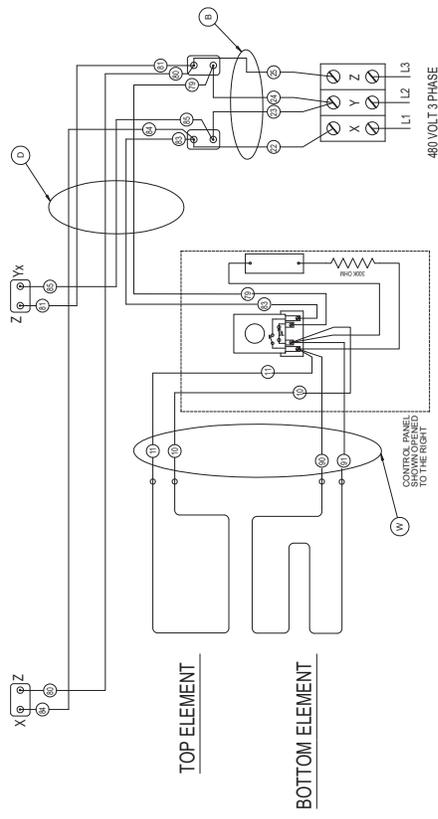
WIRING DIAGRAMS



1	W	HARNESSELEMENT	-	927356-G2
AR	V	WIRE ASSEMBLY (H)	-	414712054A
4	U	PORCELAIN BLOCK ASSEMBLY	-	417825-G1
AR	T	ELEMENT HOT TOP 5KW	480 VOLT	421323-3
AR	S	HARNESSELEMENT	-	497976-G2
AR	R	HARNESSELEMENT	-	497044-G2
AR	O	HARNESSELEMENT	-	497044-G2
AR	P	HARNESSELEMENT	-	497044-G2
AR	N	ELEMENT GRIDDLE 1.4KW	480 VOLT	407743
1	L1	LIGHT INDICATOR (VIEW)	-	428002-G3
AR	L	LIGHT INDICATOR (RED)	-	428002-G1
AR	K	WIRE ASSEMBLY (G)	-	419715094A
1	J	FRENCH PLATE 2.0KW	480 VOLT	421242-3
AR	F	THERMOSTAT (SU)	-	411595-14
AR	E	SWITCH (3 HEAT)	-	352795-1
1	D	HARNESSELEMENT (R RIGHT)	-	927354-G1
1	C1	ELEMENT TOP 1.25KW	480 VOLT	927355-6S
1	C	ELEMENT BOTTOM 3.75KW	480 VOLT	927355-5S
1	B	HARNESSELEMENT	-	927354-G1
-	A1	TERMINAL BLOCK 1 POLE 220/230	-	419729
1	A	TERMINAL BLOCK 3 POLE	-	419728
FIG. 11	DESCRIPTION		FIG.	PART NO.

CONFIGURATION	KW			480 V (AMPS)		
	X-Y	Y-Z	Z-X	X	Y	Z
RIGHT SIDE	5.0	3.4	3.4	11.8	15.1	12.2
	5.0	3.4	4.0	12.4	16.3	13.3
	5.0	4.0	4.0	13.0	16.3	14.4
	5.0	5.0	4.0	14.0	16.3	16.3
	5.0	3.4	5.0	13.4	18.1	15.1
	5.0	4.0	5.0	14.0	18.1	16.3
	5.0	5.0	5.0	15.0	18.1	18.1
	5.0	5.0	5.0	15.0	18.1	18.1
	5.0	5.0	5.0	15.0	18.1	18.1

FRENCH PLATES
 12" GRIDDLE
 24" GRIDDLE
 HOT TOPS



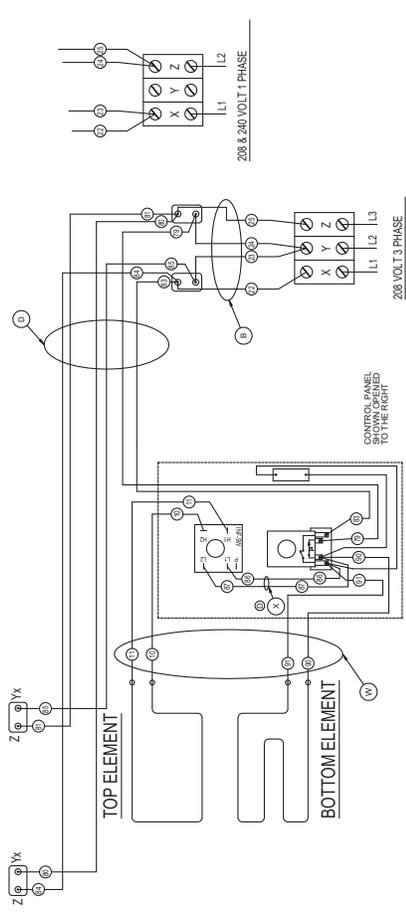
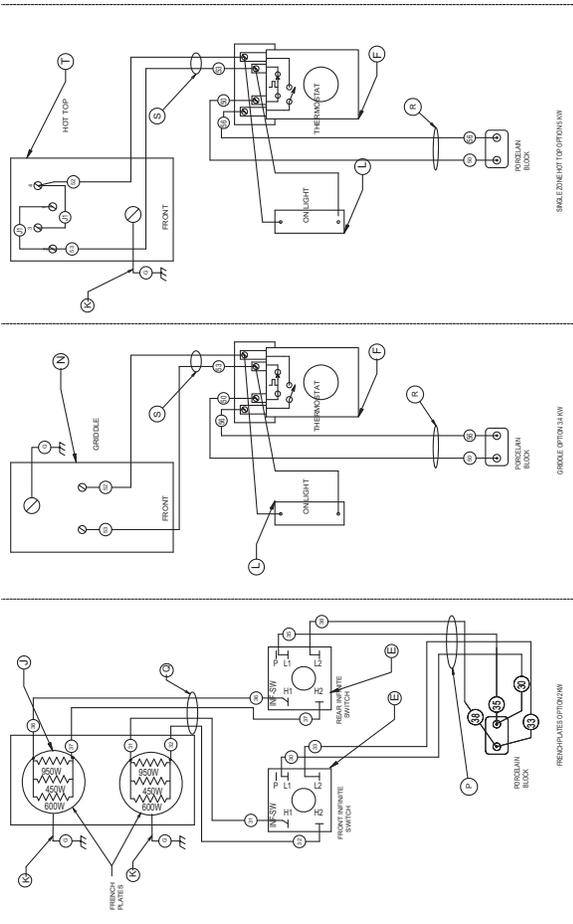
WIRING DIAGRAMS

EV & EH 24" & 60" RANGES 480 VOLTS (927568 REV F)

CONFIGURATION	208 V (AMPS)				240 V (AMPS)				
	RIGHT SIDE	XY	YZ	ZX	SINGLE PHASE	X	Y	Z	SINGLE PHASE
[Diagram]	5.0	3.4	3.4	3.4	11.8	35.0	28.3	35.0	56.7
[Diagram]	5.0	4.0	4.0	4.0	12.4	37.5	30.8	35.0	59.62
[Diagram]	5.0	4.0	4.0	4.0	13.0	37.5	33.3	37.5	62.5
[Diagram]	5.0	4.0	5.0	5.0	14.0	37.5	37.5	41.6	67.3
[Diagram]	5.0	5.0	3.4	3.4	13.4	35.0	35.0	64.4	36.1
[Diagram]	5.0	5.0	4.0	4.0	14.0	37.5	37.5	67.3	36.1
[Diagram]	5.0	5.0	5.0	5.0	15.0	41.6	41.6	72.1	36.1

1	X	WIRES TO/ELEM PWR	-	627599
1	W	HARNISS OVER ELEMENT	-	92735G1
AR	V	WIRES ASSEMBLY(U)	-	41472000AA
4	U	POWELIAN BLOCK ASSEMBLY	-	41784G1
AR	T	ELEMENT HOT TOP 9KW	208 VOLT	42130-1
AR	S	HARNISS GRODLE ELEMENT	240 VOLT	42130-2
AR	R	HARNISS GRODLE POWER	-	40794G2
AR	O	HARNISS FRENCH PLATE ELEMENTS	-	62794G1
AR	P	HARNISS FRENCH PLATE POWER	-	40794G2
AR	N	ELEMENT GRODLE 3.4KW	208 VOLT	40774-1
-	L1	LIGHT INDICATOR OVERVIEW	-	42890G3
AR	L	LIGHT INDICATOR RED	-	42890G1
AR	K	WIRES ASSEMBLY(G)	-	415715A00AA
1	J	FRENCH PLATE 2.0KW	208 VOLT	42794G3
AR	F	THERMOSTAT (S)	240 VOLT	42794G4
AR	E	SWITCH INFINITE	-	41738B-4
1	D	HARNISS MAIN	-	41738A-1
2	C	ELEMENT MB 2.5KW	208 VOLT	62733B-5
1	B	HARNISS POWER	240 VOLT	62733B-5
-	A1	TERMINAL BLOCK POLE 202080	-	4100729
1	A	TERMINAL BLOCK 3 POLE	-	4100726
REQ. 31		REQ. 31/32		REQ. 31/32

- [Symbol] FRENCH PLATES
- [Symbol] 17" GRODLE
- [Symbol] HOT TOPS
- [Symbol] 24" GRODLE



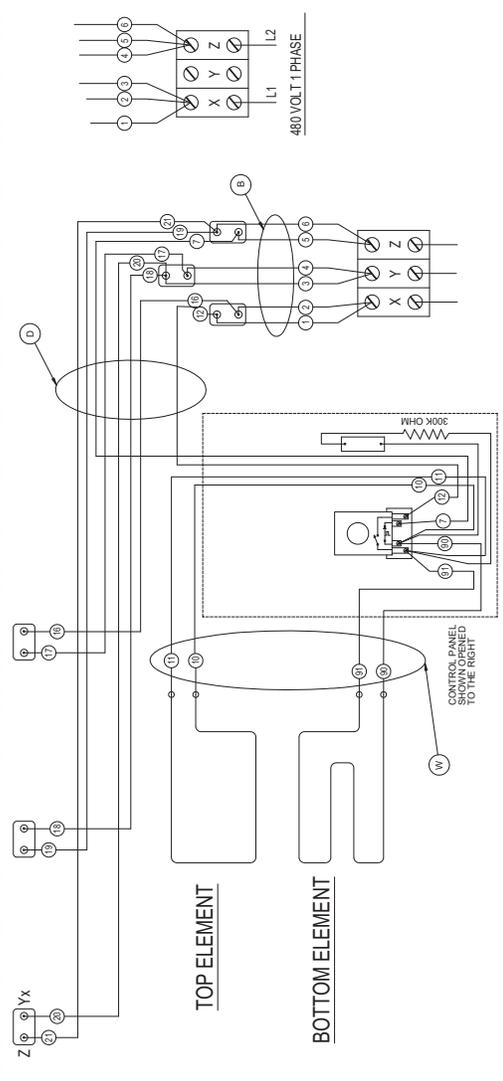
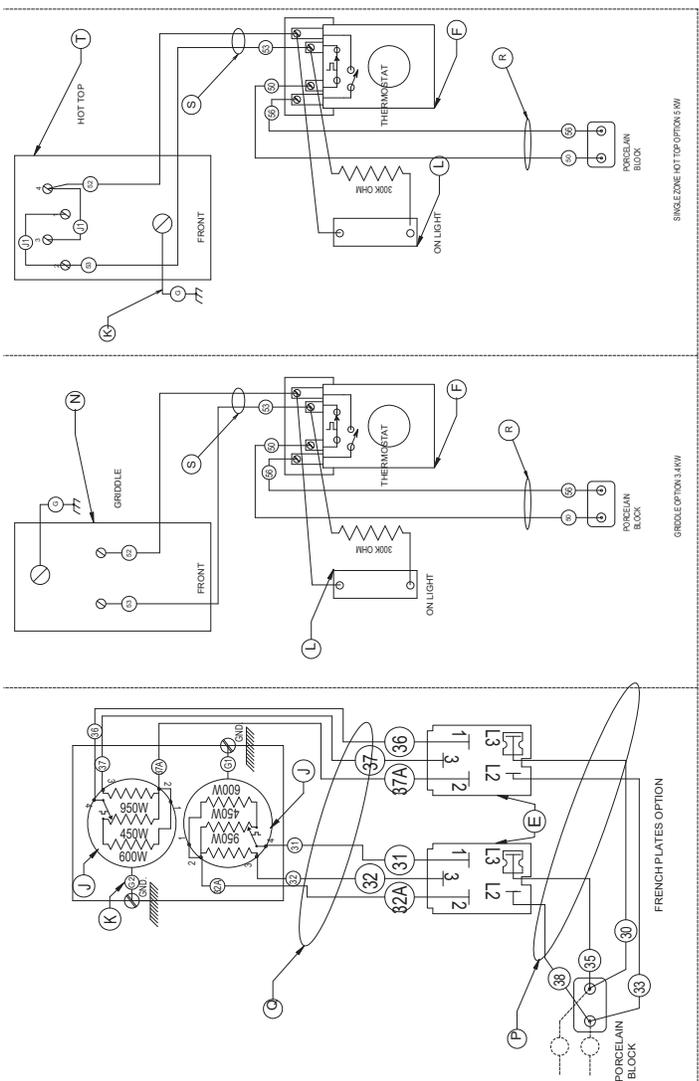
WIRING DIAGRAMS

EV & EH 24" & 60" RANGES (927566 REV F)

CONFIGURATION	KW			480AMPS				
	W	X	Y	Z	1	2		
LEFT	3.4	6.8	5.0	15.2	15.15	16.4	21.3	31.7
RIGHT	3.4	7.4	5.0	16.8	15.15	19.5	22.35	32.9
FRONT	3.4	8.0	5.0	16.4	15.15	20.05	22.25	34.15
GRIDDLE	4.0	8.0	5.0	17.0	16.25	21.05	23.45	35.4
HOT TOP	5.0	8.0	5.0	18.0	16.05	23.65	23.45	37.5
FRONT	3.4	9.0	5.0	17.4	15.15	22.35	25.25	36.25
GRIDDLE	4.0	9.0	5.0	18.0	16.25	23.45	25.25	37.5
HOT TOP	5.0	9.0	5.0	19.0	16.05	25.25	25.25	39.6
FRONT	3.4	8.4	5.0	16.8	15.15	21.3	24.2	35.0
GRIDDLE	3.4	9.0	5.0	17.4	15.15	23.45	25.25	36.25
HOT TOP	4.0	9.0	5.0	18.0	16.25	23.45	25.25	37.5
FRONT	5.0	9.0	5.0	19.0	16.05	25.25	25.25	39.6
GRIDDLE	5.0	10.0	5.0	19.9	16.25	26.25	27.05	39.6
HOT TOP	5.0	10.0	5.0	20.0	16.05	27.05	27.05	41.65



FIG. IT	DESCRIPTION	PN	PKT NO.
1	W HARNESS OVERELEMENT	-	927536-G2
AR V	WIRE ASSEMBLY (J)	-	414712-005AA
4	U PORCELAIN BLOCK ASSEMBLY	-	417894-G1
AR T	ELEMENT HOT TOP 5KW	480 VOLT	421263-3
AR S	HARNESS GRIDDLE ELEMENT	-	497376-G2
AR R	HARNESS GRIDDLE POWER	-	497044-G2
AR Q	HARNESS FRENCH PLATE ELEMENTS	-	927801-G2
AR P	HARNESS FRENCH PLATE POWER	-	497942-G2
AR N	ELEMENT GRIDDLE 3.4KW	480 VOLT	407774-3
1	L1 LIGHT INDICATOR OVER*	-	428900-G3
AR L	LIGHT INDICATOR RED	-	428900-G1
AR K	WIRE ASSEMBLY (G)	-	415715-033AA
1	J FRENCH PLATE Z KW	480 VOLT	421263-3
AR F	THERMOSTAT (S)	-	411506-14
AR E	SWITCH 3 HEAT	-	355798-1
1	D HARNESS MAIN	TOP 1.28KW	927538-G1
2	C ELEMENT OVEN 480V	BOTTOM 3.75KW	927538-G5
1	B HARNESS POWER	TOP 1.28KW	927538-G1
-	A1 TERMINAL BLOCK 1 POLE 220/240	-	410427-9
1	A TERMINAL BLOCK 3 POLE	-	410427-8



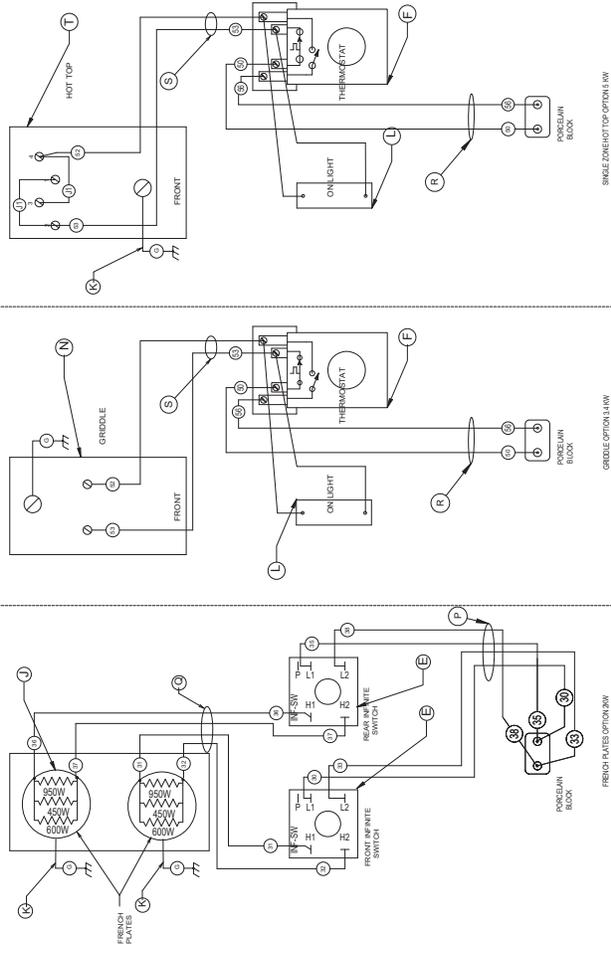
EV & EH 36" 480 VOLTS (927547 REV D)

WIRING DIAGRAMS

CONFIGURATION	120V			208V/240V			240V/208V					
	LEFT	RIGHT	SINGLE PHASE	X	Y	Z	X	Y	Z			
FRONT	3.4	6.8	5.0	15.2	30.0	42.5	48.1	73.1	30.3	36.5	42.5	63.3
GRIDDLE	3.4	7.4	5.0	15.8	30.0	46.0	51.6	76.0	30.3	38.0	44.7	66.8
HOT TOP	3.4	8.0	5.0	16.4	30.0	47.5	54.1	78.8	30.3	34.1	40.9	60.3
FRENCH PLATES	4.0	8.0	5.0	17.0	37.5	50.0	54.1	81.7	32.5	43.3	48.9	70.8
FRONT	3.4	9.0	5.0	18.0	36.0	54.1	54.1	86.5	36.1	46.9	48.9	75.0
GRIDDLE	3.4	9.0	5.0	17.4	30.0	51.6	58.3	83.7	30.3	44.7	50.5	72.5
HOT TOP	3.4	10.0	5.0	18.4	36.0	58.3	62.5	88.5	30.3	48.4	54.1	76.7
FRENCH PLATES	4.0	10.0	5.0	19.0	37.5	58.3	62.5	91.4	32.5	50.5	56.1	79.2
FRONT	5.0	10.0	5.0	20.0	41.8	62.5	62.5	96.2	36.1	54.1	61.1	83.3

REF. NO.	DESCRIPTION	PH	PART NO.
T	X WIRES, TOP ELEMENT	-	92789
1	C2 ELEMENT TOP 1.75KW	208 VOLT	92789-4S
		240 VOLT	92789-5S
T	W HARNESS OVEN ELEMENT	-	92789-6G1
AR	V WIRE ASSEMBLY (U)	-	44712-088AA
U	POKELIN BLOCK ASSEMBLY	-	44784-G1
AR	T ELEMENT HOT TOP 8W	208 VOLT	42130-1
		240 VOLT	42130-2
AR	S HARNESS, GRIDDLE ELEMENT	-	48774-G2
AR	R HARNESS, GRIDDLE POWER	-	48744-G2
AR	Q HARNESS, FRENCH PLATE ELEMENTS	-	92761-G1
AR	P HARNESS, FRENCH PLATE POWER	-	48742-G2
AR	N ELEMENT GRIDDLE 3.4KW	208 VOLT	48774-1
		240 VOLT	48774-2
L	L1 LIGHT, INDICATOR "OVEN"	-	42800-G3
L	L2 LIGHT, INDICATOR RED	-	42800-G1
AR	K WIRE ASSEMBLY (C)	-	415715-030AA
J	FRENCH PLATE 2.0KW	208 VOLT	42124-3
F	THERMOSTAT (SJ)	-	411006-14
E	SWITCH INFINITE	-	41193-4
D	HARNESS MAIN	-	92783-G1
C1	ELEMENT B07 3.75KW	208 VOLT	92783-1S
		240 VOLT	92783-2S
B	HARNESS POWER	-	92784-1G1
A1	TERMINAL BLOCK 1 POLE 2/0380	-	41072-9
A	TERMINAL BLOCK 3 POLE	-	41072-8

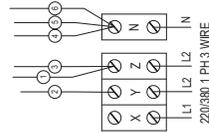
- ⊗ FRENCH PLATES
- 12" GRIDDLE
- HOT TOPS
- 24" GRIDDLE
- 36" GRIDDLE



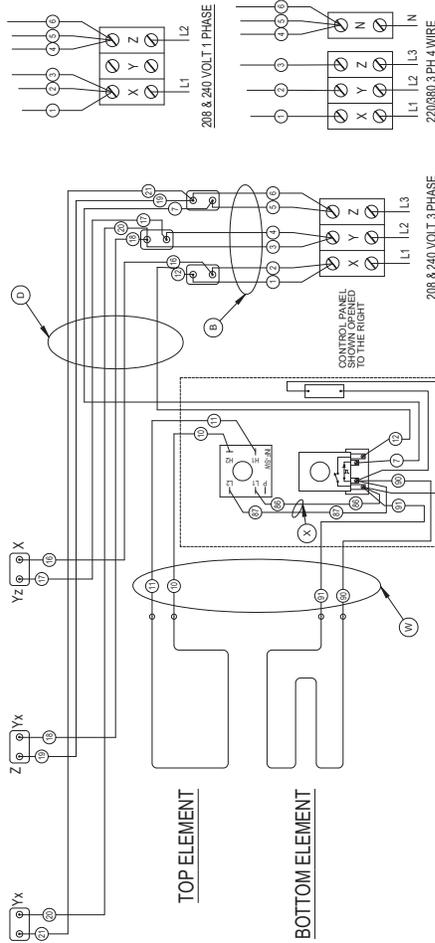
SINGLE/208V/HOT TOP/3 PHASE

GRIDDLE/OPTION 1/4 WIRE

FRENCH PLATES/OPTION 2/4 WIRE



208 & 240 VOLT 1 PHASE



208 & 240 VOLT 3 PHASE

220/080 3 PH 4 WIRE

WIRING DIAGRAMS

EV & EH 36" & 60" RANGES 208-240 VOLTS (927505 REV E)

REPLACEMENT PARTS LIST

PART NO.	NAME OF PART
00-417876-00001	Resistor (300,000 Ohm)
00-414712-006AA	Wire Assy. – Hot Top
00-355798-00001	Switch – Range (4 Position)
00-421240-00001	Plate – French Ego (208 V.)
00-421240-00002	Plate – French Ego (240 V.)
00-421240-00003	Plate – French Ego 480 V.)
00-421320-00001	Top – Hot (208 V.)
00-421320-00002	Top – Hot (240 V.)
00-421320-00003	Top – Hot (480 V.)
00-415048-00001	Clamp – French Plates
00-927601-000G1	Harness – French Plate (208/240)
00-927539-000G2	Harness – Oven Element (480 V.)
00-927601-000G2	Harness – French Plate (480V.)
00-497042-000G2	Harness – French Plate Power
00-497044-000G2	Harness – Griddle
00-497376-000G2	Harness – Griddle Element
00-927533-000G1	Harness – Main (ML-137303 & ML-137295) (LH)
00-927539-000G1	Harness – Oven Element
00-927540-000G1	Harness – Power (ML-137290)
00-927541-000G1	Harness – Power ML-137303)
00-414715-030AA	Wire Assy. – Ground
00-411503-00004	Switch – Infinite (240 V.)
00-411506-00014	Thermostat (175-550 F.)
00-418061-00003	Dial – Thermostat 1-10
00-418060-00002	Dial – Thermostat
00-412251-00001	Infinite Switch – Knob
00-428900-000G1	Indicator – Light 2-Term
00-428900-000G3	Indicator – Light 2-Term Oven
00-499974-00001	Plug – Light
00-927538-0001S	Element (3.75 Kw, 208 Volt)
00-927538-0004S	Element (1.25 Kw, 208 Volt)
00-409642-00001	Label – Front
00-409642-00002	Plate – Rear
00-417856-00001	Lug – Ground
FE-023-53	Bushing – Electric Snap (1.5)
FE-023-56	Bushing – Heco (.875)
00-805782	Label – Disconnect Power
00-438131-00003	Label – Hot Surface
00-343979-00001	Label – Caution
00-410711-000D1	Decal – Ground
00-415049-00001	Strap – Jumper
00-927538-0002S	Element (3.75 Kw, 240 V.)
00-927538-0003S	Element (3.75 Kw, 480 V.)
00-927538-0005S	Element (1.25 Kw, 240 V.)
00-927538-0006S	Element (1.25 Kw, 480 V.)
00-410472-00009	Block – Terminal (1 Pole)
00-927534-000G1	Harness – Main (ML-137295) (RH)
00-407774-00001	Element – Griddle 208 V.
00-407774-00002	Element – Griddle 240 V.
00-407774-00003	Element – Griddle 480 V.
00-927599	Wire – Top Element Power