



Natural Gas Broilers

Models CE-CN-KB-3, KB-4

Items 47496, 47497

Instruction Manual



Revised - 04/09/2025



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Model CE-CN-KB-3 / Model CE-CN-KB-4

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General Information

Omcman Manufacturing and Distributing Company Inc., Food Machinery of America, Inc. dba Omcman and Omcman Inc. are not responsible for any harm or injury caused due to any person's improper or negligent use of this equipment. The product shall only be operated by someone over the age of 18, of sound mind, and not under the influence of any drugs or alcohol, who has been trained in the correct operation of this machine, and is wearing authorized, proper safety clothing. Any modification to the machine voids any warranty, and may cause harm to individuals using the machine or in the vicinity of the machine while in operation.

CHECK PACKAGE UPON ARRIVAL

Upon receipt of an Omcman shipment please inspect for external damage. If no damage is evident on the external packaging, open carton to ensure all ordered items are within the box, and there is no concealed damage to the machine. If the package has suffered rough handling, bumps or damage (visible or concealed), please note it on the bill of lading before accepting the delivery and contact Omcman within 24 hours, so we may initiate a claim with the carrier. A detailed report on the extent of the damage caused to the machine must be filled out within three days, from the delivery date shown in the shipping documents. Omcman has no recourse for damaged products that were shipped collect or third party.

Before operating any equipment, always read and familiarize yourself with all operation and safety instructions.

Omcman would like to thank you for purchasing this machine. It's of the utmost importance to save these instructions for future reference. Also save the original box and packaging for shipping the equipment if servicing or returning of the machine is required.

Omcman Fabrication et distribution Compagnie Limitée et Food Machinery d'Amérique, dba Omcman et Omcman Inc. ne sont pas responsables de tout dommage ou blessure causé du fait que toute personne ait utilisé cet équipement de façon irrégulière. Le produit ne doit être exploité que par quelqu'un de plus de 18 ans, saine d'esprit, et pas sous l'influence d'une drogue ou d'alcool, qui a été formé pour utiliser cette machine correctement, et est vêtu de vêtements de sécurité appropriés. Toute modification de la machine annule toute garantie, et peut causer un préjudice à des personnes utilisant la machine ou des personnes à proximité de la machine pendant son fonctionnement.

VÉRIFIEZ LE COLIS DÈS RÉCEPTION

Dès réception d'une expédition d'Omcman veuillez inspecter pour dommages externes. Si aucun dommage n'est visible sur l'emballage externe, ouvrez le carton afin de s'assurer que tous les éléments commandés sont dans la boîte, et il n'y a aucun dommage dissimulé à la machine. Si le colis n'a subi aucune mauvaises manipulations, de bosses ou de dommages (visible ou cachée), notez-le sur le bon de livraison avant d'accepter la livraison et contactez Omcman dans les 24 heures qui suivent, pour que nous puissions engager une réclamation auprès du transporteur. Un rapport détaillé sur l'étendue des dommages causés à la machine doit être rempli dans un délai de trois jours, à compter de la date de livraison indiquée dans les documents d'expédition. Omcman n'a aucun droit de recours pour les produits endommagés qui ont été expédiés ou cueillis par un tiers transporteur.

Avant d'utiliser n'importe quel équipement, toujours lire et vous familiariser avec toutes les opérations et les

General Information

consignes de sécurité.

Omcan voudrais vous remercier d'avoir choisi cette machine. Il est primordial de conserver ces instructions pour une référence ultérieure. Également conservez la boîte originale et l'emballage pour l'expédition de l'équipement si l'entretien ou le retour de la machine est nécessaire.

Omcan Empresa De Fabricacion Y Distribucion Inc. Y Maquinaria De Alimentos De America, Inc. dba Omcan y Omcan Inc. no son responsables de ningun daño o perjuicio causado por cualquier persona inadecuada o el uso descuidado de este equipo. El producto solo podra ser operado por una persona mayor de 18 años, en su sano juicio y no bajo alguna influencia de droga o alcohol, y que este ha sido entrenado en el correcto funcionamiento de esta máquina, y ésta usando ropa apropiada y autorizada. Cualquier modificación a la máquina anula la garantía y puede causar daños a las personas usando la máquina mientras esta en el funcionamiento.

REVISE EL PAQUETE A SU LLEGADA

Tras la recepcion de un envio Omcan favor inspeccionar daños externos. Si no hay daños evidentes en el empaque exterior, Habra el carton para asegurarse que todos los articulos solicitados estén dentro de la caja y no encuentre daños ocultos en la máquina. Si el paquete ha sufrido un manejo de poco cuidado, golpes o daños (visible o oculto) por favor anote en la factura antes de aceptar la entrega y contacte Omcan dentro de las 24 horas, de modo que podamos iniciar una reclamación con la compañía. Un informe detallado sobre los daños causados a la máquina debe ser llenado en el plazo de tres días, desde la fecha de entrega que se muestra en los documentos de envío. Omcan no tiene ningun recurso por productos dañados que se enviaron a recoger por terceros.

Antes de utilizar cualquier equipo, siempre lea y familiarizarse con todas las instrucciones de funcionamiento y seguridad.

Omcan le gustaría darle las gracias por la compra de esta máquina. Es de la mayor importancia para salvar estas instrucciones para futuras consultas. Además, guarda la caja original y el embalaje para el envío del equipo si servicio técnico o devolución de la máquina que se requiere.

Safety and Warranty

IMPORTANT: ONLY A CERTIFIED GAS TECHNICIAN MAY PERFORM INSTALLATION OF THIS UNIT.

This manual contains important information regarding your purchased equipment. Please read the manual thoroughly prior to equipment set-up, operation and maintenance. Failure to comply with regular maintenance guidelines outlined in this manual may void the warranty. Please keep it for future reference after installation and do not throw it away! This is a universal installation and operation instruction book which would apply to different models. PLEASE READ!!!



Safety and Warranty

FOR YOUR SAFETY

- DO NOT STORE OR USE GASOLINE OR OTHER FLAMMABLE VAPORS OR LIQUIDS IN THE VICINITY OF THIS OR ANY OTHER EQUIPMENT.

WARNING

- IMPROPER INSTALLATION, ADJUSTMENT, ALTERATION, SERVICE OR MAINTENANCE CAN CAUSE PROPERTY DAMAGE, INJURY OR DEATH.
- READ THE INSTALLATION AND MAINTENANCE INSTRUCTIONS THOROUGHLY BEFORE INSTALLING OR SERVICING THIS EQUIPMENT.
- Electrical grounding instructions: this appliance is equipped with a three-prong (grounding) plug for your protection against shock hazard and should be plugged directly into a properly grounded three-prong receptacle. Do not cut or remove the grounding prong from this plug.
- Wiring diagrams are located in the control compartment area of the broilers.
- Have the equipment installed by a qualified installer in accordance with all federal, state and local codes.
- This equipment is for use in non-combustible locations only.
- Do not obstruct the flow of combustion and ventilation air.
- Do not spray controls or the outside of the equipment with liquids or cleaning agents.
- Allow for hot parts to cool before cleaning or moving.
- This equipment should only be used in a flat, level position.
- Do not operate unattended.
- Any loose dirt or metal particles that are allowed to enter the gas lines on this equipment will damage the valve and affect its operation.
- If you smell gas, follow the instructions provided by the gas supplier. Do not touch any electrical switch; do not try to light the burner; do not use a telephone within close proximity.
- Never attempt to move grates while cooking.

RESIDENTIAL USERS: vendor assumes no liability for parts or labor coverage for component failure or other damages resulting from installation in non-commercial or residential applications. The right is reserved to deny shipment for residential usage; if this occurs, you will be notified as soon as possible.

1 YEAR PARTS AND LABOUR BENCH WARRANTY

Within the warranty period, contact Omcan Inc. at 1-800-465-0234 to schedule a drop off to either an Omcan authorized service depot in the area, or to an Omcan Service warehouse to repair the equipment.

Unauthorized maintenance will void the warranty. Warranty covers electrical and part failures, not improper use.

Please see <https://omcan.com/disclaimer> for complete info.

WARNING:

The packaging components (cardboard, polyethylene, and others) are classified as normal solid urban waste

Safety and Warranty

and can therefore be disposed of without difficulty.

In any case, for suitable recycling, we suggest disposing of the products separately (differentiated waste) according to the current norms.

DO NOT DISCARD ANY PACKAGING MATERIALS IN THE ENVIRONMENT!

Technical Specifications

Item Number	47496	47497
Model	CE-CN-KB-3	CE-CN-KB-4
Meat Capacity	65 lbs. / 29.5 kgs.	100 lbs. / 45.4 kgs.
Gas Type	Natural Gas / Propane Gas	
Material	Stainless Steel	
BTU	28,500 NG / 24,000 LP	38,000 NG / 32,000 LP
Electrical	110-120V / 60Hz / 1	
Number of Burners	3	4
Dimensions	21" x 22.7" x 30" / 533 x 577 x 762mm	21" x 22.7" x 37" / 533 x 577 x 940mm
Packaging Dimensions	30" x 25" x 37" / 762 x 635 x 940mm	30" x 25" x 44" / 762 x 635 x 1118mm
Weight	65.9 lbs. / 29.9 kgs.	70.1 lbs. / 31.8 kgs.
Packaging Weight	100.1 lbs. / 45.4 kgs.	110 lbs. / 49.9 kgs.

Installation

SET UP

1. Remove all packing material and tape, as well as any protective plastic from the equipment.
2. Place the equipment in the desired position and height.
3. Clean and dry the equipment thoroughly before using.

The installation of this equipment must conform with local codes, or with the National Gas Code, ANSI Z223.1/ NFPA 54, or the Natural Gas and Propane Installation Code, CSA B149.1, as applicable. The appliance must be electrically grounded in accordance with the National Electrical Code, NFPA 70, or the Canadian Electrical Code, CSA C22.2.

- The equipment and its individual shutoff valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of ½ psi (3.5 kPa).

Installation

- The equipment must be isolated from the gas supply piping system by closing its individual manual shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to or less than ½ psi (3.5 kPa).

CLEARANCE AND POSITIONING AROUND THE EQUIPMENT

- This equipment must be installed adjacent to non-combustible surfaces only with a minimum spacing of 0" from all sides. This equipment must be a distance of 6" from other equipment.

AIR SUPPLY AND VENTILATION

- The area in front and around the equipment must be kept clear to avoid any obstruction of the flow of combustion and ventilation air.
- Adequate clearance must be maintained at all times in front of and at the sides of the equipment for servicing and proper ventilation.

PRESSURE REGULATOR

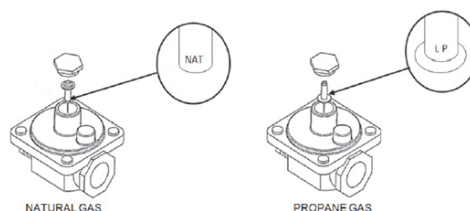
- All commercial cooking equipment must have a pressure regulator on the incoming service line for safe and efficient operation. The regulator provided for this equipment is adaptable for both natural gas and LP gas.
- Regulator specifications: ¾" NPT inlet and outlet, factory adjusted for 4" WC natural gas standard and may be converted by qualified personnel to be used for propane at 10" WC.

Prior to connecting the regulator, check the incoming line pressure. The regulator can only withstand a maximum pressure of ½ PSI (14" WC). If the line pressure is beyond this limit, a step down regulator before the regulator provided will be required. The arrow above (FLOW) shows gas flow direction and should point downstream to the equipment.

PROPANE GAS CONVERSION

This broiler is shipped from the factory equipped with fixed burner orifices for natural gas operation. The burner orifices required to convert the broiler to propane gas are shipped with the broiler in the shipping packaging. It is recommended that a trained gas service technician with the necessary tools, instruments and skills perform the conversion. To convert to propane, following steps must be completed:

1. Remove all natural gas burner orifices and install the provided propane burner orifices.
2. Set the regulator to 10" W.C. by inverting the regulator spring plug like below pictures.



Operation

LIGHTING THE PILOT

The manifold units are equipped with standing pilots and each should be lit immediately after the gas is supplied to the equipment.

1. Before attempting to light the pilots, turn off the main gas valve to the equipment and wait 5 minutes to clear the gas.
2. Turn off all gas control knobs.
3. Turn on control valve and light all pilots.
4. The pilot burner must be lit from the top. Hold an ignition source and light the pilot. When the flame is stable, remove ignition source.
5. Turn off the main gas valve to shut down the equipment.

There is one pilot for each burner. The broiler is equipped with standing, unmonitored pilots. Gas will flow from the pilots as soon as the main gas supply to the unit is turned on. Standing pilots should be adjusted to provide a slight yellow tip on the flame. Air shutters on the main burners must be individually adjusted to provide a blue flame. All traces of yellow should be adjusted out of the burner flame. The broiler is a free vented appliance. All products of combustion and the heat generated by the burners pass through the grates. When meat is placed on the grates, this blocks the venting and causes a temperature build-up.

PILOT FLAME HEIGHT ADJUSTMENT

- The pilot flame on the equipment has been factory adjusted. When adjustment is necessary, adjust the pilot flames as small as possible but high enough to light the burner immediately when the burner valve is turned to the highest setting. Access to the pilot flame adjustment screw is obtained through the holes in the front panel.

Turn the main power switch ON. Each power switch controls each spit independently. Allow the broiler to preheat for 30 minutes. Each spit is able to cook 5 chickens in 45 minutes. After 30 minutes of burn-in, equipment is ready for use.

OPERATION

1. To ignite the burners, depress and turn the gas control knob to high position.
2. Turn on the motor and chamber light switch when in need.

SHUTDOWN INSTRUCTIONS

After cooking is done, please turn the valve to off position and turn off the motor switch, light switch and main power switch, then cut off the gas and power supply.



Maintenance

COMPONENT PARTS

The broiler comes with several standard parts as illustrated. Each can be easily removed and installed easily by hand for cleaning and maintenance. Note that the Burner and Deflector are an assembly and are NOT designed to be disassembled.

CLEANING

Spits may be immersed in strong commercial cleaning compound overnight. In the morning, rinse with hot water to remove any residues of cleaning compound. Thoroughly dry and apply cooking oil to prevent rusting. Stainless steel surfaces may be cleaned using damp cloth with mild detergent and water solution. Places where fat, grease, or food can accumulate must be cleaned regularly.

MAINTENANCE

- A qualified service company should check the unit for safe and efficient operation on an annual basis.
- Gas piping shall be a certain size and installed to provide a supply of gas sufficient to meet the full gas input of the equipment.
- A manual shut off valve should be installed upstream from the manifold within 4 ft. (1.2m) of the equipment and in a position where it can be reached in the event of an emergency.
- Check entire gas piping system for leaks every so often. Using a gas leak detector or soapy water solution is recommended.
- Install equipment under efficient exhaust hood with flameproof filters with a distance of no less than 4 feet between the top of the equipment and the filters or any other combustible materials.

***Shipped setup for natural gas and includes a kit for conversion to LPG.**

LEVELING

It is important that the broiler is level front to back and left to right. Areas of uneven heat distribution will occur on an unlevelled unit. The unit should be rechecked for level anytime it has been moved.

VENTILATION HOOD

The broiler should be installed under a suitable ventilation hood. For safe operation and proper ventilation, keep the space between the broiler and vent hood free from any obstructions.

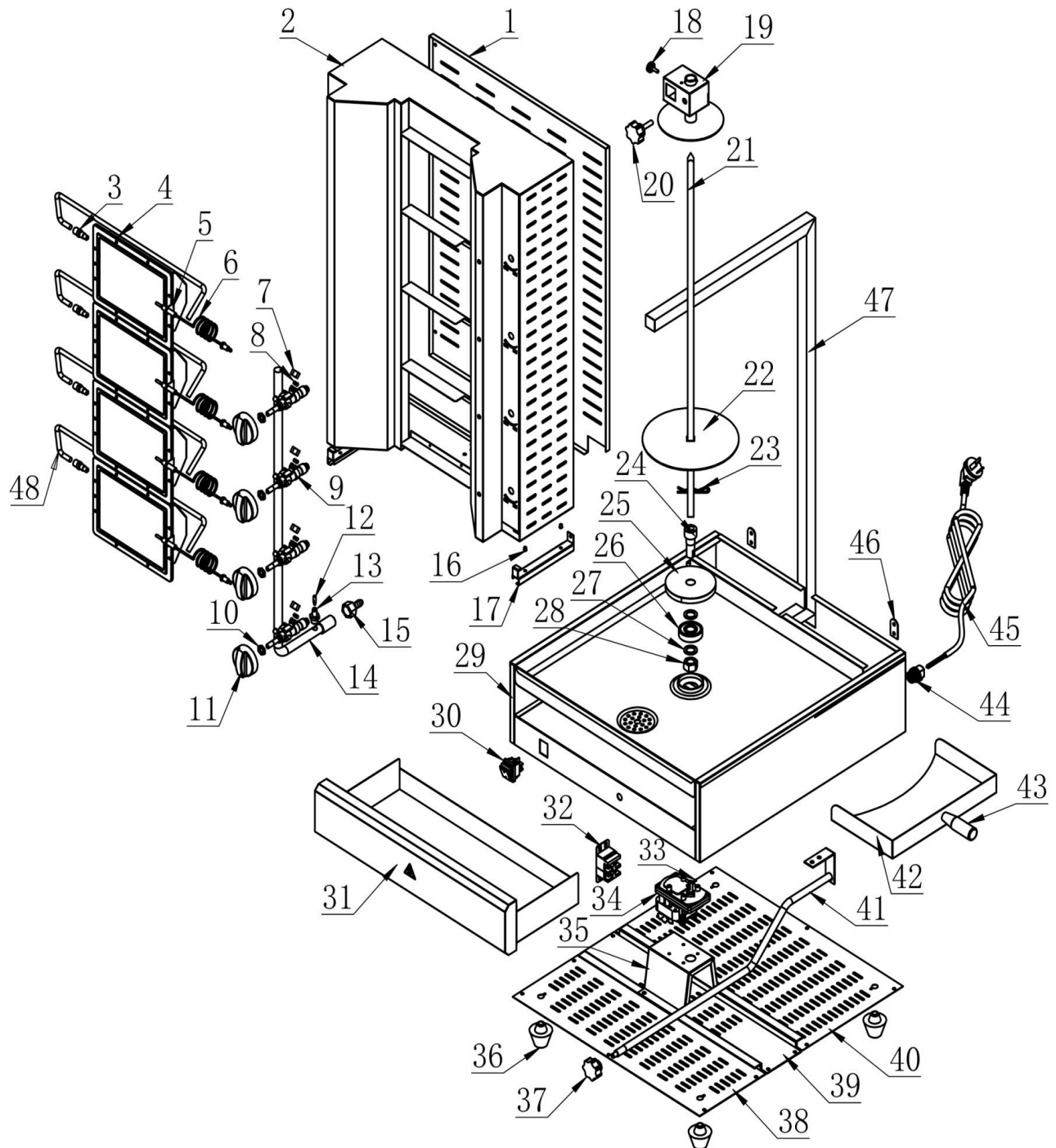
Troubleshooting

PROBLEM	POSSIBLE CAUSES
Uneven heating, sides burning.	Burner valves improperly adjusted.
	Fluctuating gas pressure.
	Improperly adjusted burner.
Too much top heat.	Burner valves adjusted too high.
	Faulty ventilation.
	OVERRATED gas pressure.
	Improperly adjusted burner.
Uneven heat side to side.	Burner valves improperly adjusted.
	Appliance is not level side to side.
	Improperly adjusted burner.
Pilot outage.	Pilot flame is set too low. Adjust pilot to allow for gas flow.
	Obstruction in pilot orifice.
	Low gas pressure.
Yellow burner flames.	Open burner shutters until flames are blue.
Lifting burner flames.	Close burner shutters until flames touch burner.
Fluctuating gas pressure.	Check for clogged vent on regulator.

Parts Breakdown

Model CE-CN-KB-3 47496

Model CE-CN-KB-4 47497



Parts Breakdown

Model CE-CN-KB-3 47496

Item No.	Description	Position	Item No.	Description	Position	Item No.	Description	Position
AL119	Nozzle LPG Set of 3 Orifices for 47496	3	AJ538	Knob of Principal Axis for 47496	20	AL144	Terminal for 47496	32
AL120	Burner with NG Nozzle for 47496	4	AP001	Spit/Principle Axis L=625mm (24") for 47496	21	AL146	Motor for 47496	34
AL122	Thermal Couple for 47496	6	AM729	Grease Protecting Plate for 47496	22	AJ529	Foot for 47496	36
AL123	Locking Nut 8 for 47496	7	AJ535	Backing Pin for 47496	23	AJ533	Knob of Pull Rod for 47496	37
AL124	Compression Ring for 47496	8	AL137	Spit Base for 47496	24	AL151	Sliding Shaft for 47496	41
AL125	Gas Valve for 47496	9	AL138	Bearing Cover for 47496	25	AL152	Meat Shovel 292x289x40mm for 47496	42 - 43
AL127	Knob for 47496	11	AL139	Bearing for 47496	26	AJ591	Power Cord Sheath for 47496	44
AL132	Sliding Column for 47496	16	AL140	Flat Washer for 47496	27	AL153	Power Cord for 47496	45
AL134	Locking Nut for 47496	18	AD712	Power Switch for 47496	30			
AL135	Top Case of Spit for 47496	19	AL143	Grease Collector for 47496	31			

Parts Breakdown

Model CE-CN-KB-4 47497

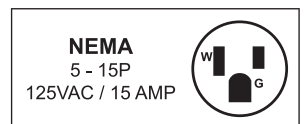
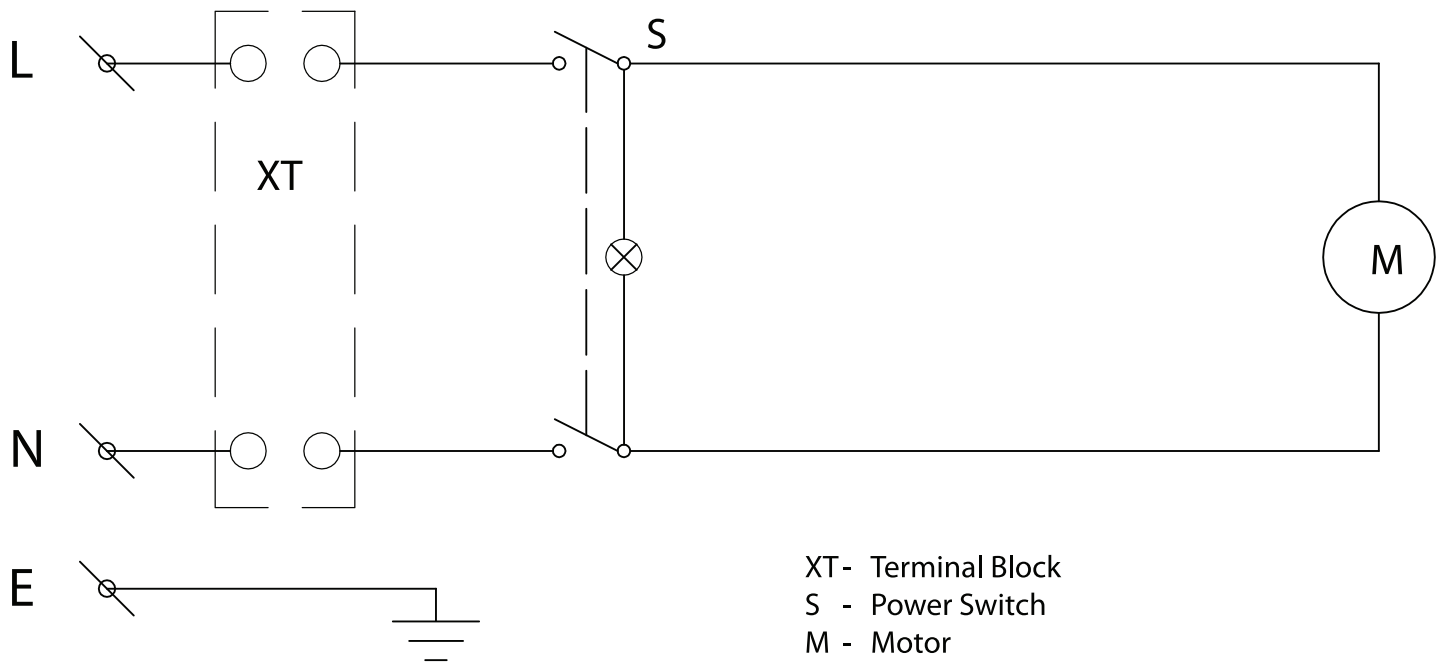
Item No.	Description	Position	Item No.	Description	Position	Item No.	Description	Position
AL119	Nozzle LPG Set of 3 Orifices for 47497	3	AJ538	Knob of Principal Axis for 47497	20	AL144	Terminal for 47497	32
AL120	Burner with NG Nozzle for 47497	4	AJ537	Spit/Principle Axis L=795mm (31") for 47497	21	AL146	Motor for 47497	34
AL122	Thermal Couple for 47497	6	AL136	Grease Protecting Plate for 47497	22	AJ529	Foot for 47497	36
AL123	Locking Nut 8 for 47497	7	AJ535	Backing Pin for 47497	23	AJ533	Knob of Pull Rod for 47497	37
AL124	Compression Ring for 47497	8	AL137	Spit Base for 47497	24	AL151	Sliding Shaft for 47497	41
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AL134	Locking Nut for 47497	18	AD712	Power Switch for 47497	30			
AL135	Top Case of Spit for 47497	19	AL143	Grease Collector for 47497	31			

Electrical Schematics

Model CE-CN-KB-3 47496

Model CE-CN-KB-4 47497

AC/110-120V/60Hz





Warranty Registration

Thank you for purchasing an Omcan product. To register your warranty for this product, complete the information below, tear off the card at the perforation and then send to the address specified below. You can also register online by visiting:

Merci d'avoir acheté un produit Omcan. Pour enregistrer votre garantie pour ce produit, complétez les informations ci-dessous, détachez la carte au niveau de la perforation, puis l'envoyer à l'adresse spécifiée ci-dessous. Vous pouvez également vous inscrire en ligne en visitant:

Gracias por comprar un producto Omcan usted. Para registrar su garantía para este producto, complete la información a continuación, cortar la tarjeta en la perforación y luego enviarlo a la dirección indicada a continuación. También puede registrarse en línea en:

<https://omcan.com/warranty-registration/>

For mailing in Canada

Pour postale au Canada

Por correo en Canadá

OMCAN

PRODUCT WARRANTY REGISTRATION

3115 Pepper Mill Court,
Mississauga, Ontario
Canada, L5L 4X5

For mailing in the US

Pour diffusion aux États-Unis

Por correo en los EE.UU.

OMCAN

PRODUCT WARRANTY REGISTRATION

4450 Witmer Industrial Estates, Unit 4,
Niagara Falls, New York
USA, 14305

or email to: service@omcan.com



Purchaser's Information

Name: _____

Address: _____

City: _____ Province or State: _____ Postal or Zip: _____

Country: _____

Dealer from which Purchased: _____

Dealer City: _____ Dealer Province or State: _____

Invoice: _____

Model Name: _____ Model Number: _____

Machine Description: _____

Date of Purchase (MM/DD/YYYY): _____

Would you like to extend the warranty? ☐ Yes ☐ No

Company Name: _____

Telephone: _____

Email Address: _____

Type of Company:

- | | | |
|--|--------------------------------------|----------------------------------|
| ☐ Restaurant | ☐ Bakery | ☐ Deli |
| ☐ Butcher | ☐ Supermarket | ☐ Caterer |
| ☐ Institution (<i>specify</i>): _____ | | |
| ☐ Other (<i>specify</i>): _____ | | |

Serial Number: _____

Date of Installation (MM/DD/YYYY): _____

Thank you for choosing Omcan | Merci d'avoir choisi Omcan | Gracias por elegir Omcan



Since 1951 Omcan has grown to become a leading distributor of equipment and supplies to the North American food service industry. Our success over these many years can be attributed to our commitment to strengthen and develop new and existing relationships with our valued customers and manufacturers. Today with partners in North America, Europe, Asia and South America, we continually work to improve and grow the company. We strive to offer customers exceptional value through our qualified local sales and service representatives who provide convenient access to over 6,500 globally sourced products.

Depuis 1951 Omcan a grandi pour devenir un des “leaders” de la distribution des équipements et matériel pour l’industrie des services alimentaires en Amérique du Nord. Notre succès au cours de ces nombreuses années peut être attribué à notre engagement à renforcer et à développer de nouvelles et existantes relations avec nos clients et les fabricants de valeur. Aujourd’hui avec des partenaires en Amérique du Nord, Europe, Asie et Amérique du Sud, nous travaillons continuellement à améliorer et développer l’entreprise. Nous nous efforçons d’offrir à nos clients une valeur exceptionnelle grâce à nos ventes locales qualifiées et des représentants de service qui offrent un accès facile à plus de 6500 produits provenant du monde entier.

Desde 1951 Omcan ha crecido hasta convertirse en un líder en la distribución de equipos y suministros de alimentos en América del Norte industria de servicios. Nuestro éxito en estos años se puede atribuir a nuestro compromiso de fortalecer y desarrollar nuevas relaciones existentes con nuestros valiosos clientes y fabricantes. Hoy con socios de América del Norte, Europa, Asia y América del Sur, que trabajan continuamente para mejorar y crecer la empresa. Nos esforzamos por ofrecer a nuestros clientes valor excepcional a través de nuestro local de ventas y representantes de los servicios que proporcionan un fácil acceso a más de 6,500 productos con origen a nivel mundial.

