

USE AND CARE MANUAL

GAS RANGES

KOS-RG MODELS

KOS-24RG03M | KOS-30RG03M

KOS-36RG03M | KOS-48RG03M

KOSTCH

Safety and warnings

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Safety and warnings

1. Warnings

These are the most critical warnings summarized below.



- If the instructions in this manual are not followed exactly, a fire or explosion may result, causing property damage, personal injury or death.
- Do not store or use gasoline or other flammable substances and liquids near this or other appliance,
- Never use this appliance as a space heater to warm a room.
- Installation of this appliance must be done by a qualified, service agency or gas supplier.

What to do if you smell gas

- Do not light any appliance
- Do not touch an electrical switch
- Immediately call the gas supplier from a neighbor's phone
- Open a window and leave the area
- Follow the gas supplier's instructions
- If you cannot reach the gas supplier, call the fire department

Safety and warnings

2. Welcome

Thank you for purchasing KOSTCH range. We appreciate your business and we recommend that you read this entire User's Manual before operating your new appliance for the first time.

This manual contains instructions on how to properly install and set up your new range, as well as insights into the unique features that our product offers. Please keep this manual for future reference, as it contains answers to questions that you might have as you begin to cook.

Thank you,

KOSTCH

This manual applies to the following models' series:

K0S-24RG03M	KOS-30RG03M	KOS-36RG03M	KOS-48RG03M
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3. Before you start

- ✓ Make sure that the anti-tip of the range has been properly installed.
- ✓ Find the model and serial numbers on the CSA label in the bottom right-hand corner of the backboard. Note these numbers down for future reference in the space provided in section 'Warranty and service'.
- ✓ Read this guide, taking special note of the 'Safety and warnings' section.
- ✓ Remove all the packaging from the oven(s) and cooktop. Recycle items that you can. If any adhesive residue is left on surfaces, remove this using dish washing liquid on a soft cloth. Do not use any harsh or abrasive cleaners.
- ✓ Make sure you follow the instructions under 'First use' before using your range for cooking.
- ✓ To reduce the risk of fire, electrical shock, injury to persons, or damage when using the appliance, follow the important safety instructions listed below:

4. Safety and Warnings

Safety Symbols

Symbol	Definition
	This will alert you to potential personal or property safety hazards. Obey all safety rules to avoid any property damage, personal injury or death.
	WARNING indicates a potentially hazardous situation, which, if not avoided, could result in serious injury or death.
	CAUTION indicates a moderate hazardous situation, which, if not avoided, could result in minor or moderate injury.
	CAUTION – when used without the safety alert symbol, indicates a potentially hazardous situation, which, if not avoided, could result in property damage.
	IMPORTANT used for installation, operation and maintenance information that are not related to safety.

Safety and warnings

Electrical Shock Hazard

- ✓ Before removing a faulty oven light bulb, make sure you turn OFF the power to the range at the main fuse or circuit breaker panel. If you don't know how to do this, contact an electrician.
- ✓ Do not remove the kick panel or the back panel. Due to electrical wires behind it, both panels should only be removed by a qualified technician.
- ✓ 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 power outlet. Do not under any circumstances cut or remove the grounding prong from this plug.

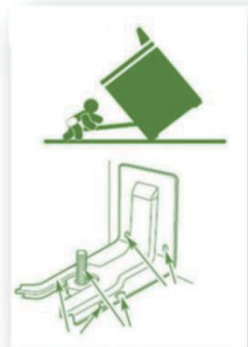


Failure to follow this advice may result in death or electrical shock.

Tipping Hazard

All ranges can tip and cause injuries to adults and children. To prevent tipping, install the anti-tip device supplied with your range. Follow all installation instructions.

- ✓ Even after the safety device is installed, do not step, lean or sit on the oven door or place any heavy objects on it. Doing so may result in personal injury.

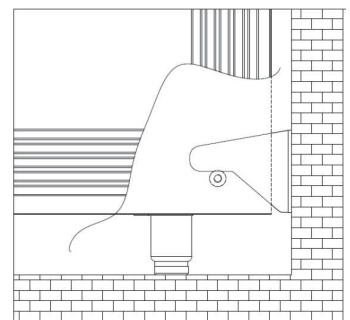


Make sure anti-tip device is installed as follows:

1. Slide the range forward.
2. Install the anti-tip device as described in the instruction sheet
3. Safely tilt the front section of the range and slide the range slowly back against the wall.
4. The rear pins should slide under the bracket.

Do not use the appliance until it has been secured.

Failure to follow this advice may result in serious injury.



Anti-tip device for KOS-30RG03K

Safety and warnings

Explosion Hazard

- ✓ If you smell gas, do not use the appliance. Open a window or door to let the gas escape, then follow the instructions on the inside front cover of this manual.
- ✓ Do not use water on grease fires. A violent steam explosion may result.
- ✓ Turn all burners off, then smother fire or flame with a dry chemical or foam-type extinguisher. Do not try to smother with flammable blankets.
- ✓ Do not heat unopened food containers, such as cans. A build-up of pressure may cause the container to burst and result in injury.

Failure to follow this advice may result in injury or death



Fire Hazard

- ✓ Never use your appliance as a space heater. Persons could be injured or a fire could start.
- ✓ Keep the area around the appliance free from combustible materials (e.g. wall coverings, curtains, drapes), gasoline and other flammable vapors and liquids.
- ✓ Clean the stove and burners regularly.
Do not let cooking grease or other flammable materials accumulate on the surfaces or near the appliance.
- ✓ Do not hang any articles (e.g. dish towels) off the oven handle. Some fabrics may ignite or melt from the heat.
- ✓ Never leave the cooktop burners unattended when in use. Boil over causes smoking and greasy spill overs that may ignite.
- ✓ Never spray an aerosol cleaner on or around the appliance while burners are lit, Be sure all the controls are turned off and the appliance is cool. The aerosol gas and chemicals in such cleaners could, in the presence of heat, ignite or cause metal parts to corrode.
Do not store flammables near cooktop
- ✓ Flammable materials should not be stored in an oven or near the cooktop. An accident could cause a serious fire.



Safety and warnings

Poisoning Hazard

- ✓ Never cover any slots, holes or passages in the oven bottom or cover an entire rack or the oven floor with materials such as aluminum foil. Doing so blocks airflow through the oven and may cause carbon monoxide poisoning. Aluminum foil linings may also trap heat, causing a fire hazard.
- ✓ Clean the appliance with caution. If a wet sponge or cloth is used to wipe spills on a hot cooking area, be careful to avoid steam burn. Some cleaners can produce noxious fumes if applied to a hot surface. Follow the directions of the cleaner manufacturer.
- ✓ Never use this appliance as a space heater to heat or warm the room. Doing so may result in carbon monoxide poisoning and overheating of the appliance.

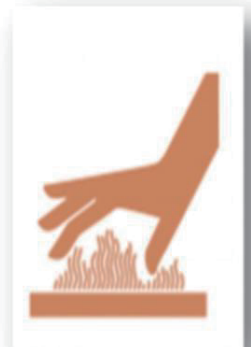


Failure to follow this advice may result in poisoning or death.

Hot Surface Hazard

Accessible parts may become hot during use.

- ✓ Do not touch burners, areas near burners, the grill, griddle, grease drip pans, heating elements or interior surfaces of oven. These may be hot enough to cause burns even though they are dark in color. During and after use, do not touch, or let clothing or other flammable materials contact these parts and surfaces until they have had sufficient time to cool. Other parts and surfaces of the appliance may become hot enough to cause burns - among these areas are the grates, back trim and oven vents at the back of the cooktop, front edge, surfaces adjacent to the cooktop, and the oven door.
- ✓ Use only dry potholders. Moist or damp potholders on hot surfaces may result in burns from steam. Do not let potholder touch hot heating elements. Do not use a towel or other bulky cloth.
- ✓ Let hot grease cool before attempting to handle it.



Failure to follow this advice could result in burns and scalds.

Other Safety Tips

- ✓ Read instructions before use
Read all the instructions before using the appliance.
Use the appliance only for its intended purpose as described in these instructions.
- ✓ Install the stove properly
Be sure your stove is properly installed and grounded by a qualified technician.

Safety and warnings

- ✓ Do not install or operate stove if damaged.
Do not operate the appliance if it is damaged or not working properly. If you received a damaged product, contact your dealer or installer immediately.
- ✓ Know how to turn off power in emergency
Be sure to have the installer show you where and how to turn off the power supply to the range (i.e. location of the main fuse or circuit breaker panel) and where and how to turn off the gas supply to the range in an emergency.
- ✓ Do not leave children alone near stove
Children should not be left alone or unattended in the area where the appliance is in use. They should never be allowed to play with the appliance or to sit or stand on any part of the appliance.
- ✓ Do not store toys or candy over the stove
For safety reasons, do not store items of interest to children in cabinets above a range or at the back of the range – children climbing on the range to reach items could be seriously injured.
- ✓ Don't wear loose clothing that could catch fire
Loose-fitting or hanging garments should never be worn while using the appliance.
- ✓ Do not repair or replace parts yourself (unless recommended)
Do not repair or replace any part of the appliance unless specifically recommended in the manual. All other servicing should be referred to a qualified technician. Technicians must disconnect the appliance from the power supply before any servicing.
- ✓ Careful opening oven door
Use care when opening the oven door by allowing warm air or steam escape before removing or replacing food.
- ✓ Keep oven vent ducts unobstructed.
- ✓ Do not touch hot oven shelves
Protect your hands from burning by making sure the oven is cool before sliding oven shelves into oven. If a shelf must be removed while the oven is hot, do not let oven mitts or potholder contact the base of the oven or hot heating elements in the oven.
- ✓ Protect oven gasket
Do not clean the oven gasket or use any oven-cleaning products on it. It is essential for a good seal, which ensures that the oven operates efficiently. Care should be taken not to rub, damage or move it.
- ✓ Protect glass oven doors
Do not use harsh/abrasive cleaners, scourers or sharp metal scrapers to clean the oven door glass since they scratch the surface, which may result in the glass shattering.
- ✓ Never step on oven door or place a heavy object (like a Turkey) on it
- ✓ Check for gas leaks
When the appliance installed, check for gas leaks according to the instruction before use.
- ✓ Ventilation hood is mandatory
This appliance should not be operated without a properly sized and operational ventilation hood.
- ✓ Use proper gas conversion kit
This stove might be used for natural gas or liquid propane. If you are not sure whether the unit is used for NG or LP, please contact your dealer or KOSTCH customer service for verification. For LP conversion, please use conversion kit for your certain model. Please have a certified technician install the unit and kit (technical support is available during normal business hours). If planning to resell unit, please indicate whether it is natural gas or has LP kit installed.
- ✓ Do not reach for items over the stove when it is lit
Be careful when reaching for items stored in cabinets above the appliance.
- ✓ Read all instructions before using the product to ensure proper and safe operation. Install or locate the product only in accordance with the provided Installation Instructions.
- ✓ Do not attempt to adjust, repair, service or replace any part of your appliance unless it is specifically recommended in this guide.
- ✓ Do not use the range as a space heater.
- ✓ Do not leave children unattended in the area where the range is in use. Never allow children to sit or stand on any part of the range. Do not let children play with the range.
- ✓ All servicing should be referred to a qualified technician.
- ✓ Have the technician show you the location of the gas shut off valve and how to shut it off in an emergency.

Safety and warnings

- ✓ Always disconnect power to appliance before any type of servicing.
- ✓ Do not use abrasive or caustic cleaners or detergents on this appliance. They may cause permanent damage to the surface.
- ✓ When cooking, set the burner controls so that the flame heats only the bottom of the utensil and does not overlap at the sides of the utensil.
- ✓ Utensils (pots and pans) that conduct heat slowly, i.e. glass pots, should be used in conjunction with burner flames at a low or medium setting.
- ✓ Turn off all controls and wait for appliance parts to cool down before touching them. Do not touch the burner grates or surrounding areas until cool.
- ✓ Do not use water on grease fires.
- ✓ Clean appliance with caution.
- ✓ Always turn pot handles to the side or back of the range. Do not turn handles towards the area where they are easily burned. Handles should not extend over the adjacent burners.
- ✓ Use the range only for cooking tasks as outlined in this manual. When using the range, do not touch the grates, burner caps, burner bases, or any other parts in proximity to the flame. These components may be hot enough to cause burns.
- ✓ Use dry pot holders. Moist or damp pot holders on hot surfaces may result in burns from steam.
- ✓ Do not use a towel or other bulky cloth.
- ✓ Do not heat unopened food containers. Buildup of pressure may cause the container to explode and result in injury.
- ✓ During and after use, do not touch interior surfaces of the oven until cool.
- ✓ Do not let pot holder touch hot surface areas.

Dimension and Clearance

5. Gas Supply Requirements

Installation of this range must conform with local codes, or in the absence of local codes, with national Fuel Gas Code ANSI Z223.1 / NFPA 54.

In Canada, installation must conform to the current natural Gas Installation /code, CAN 1-1.1-M81 and with local codes where applicable.

This range has been design-certified according to ANSI Z21.1a, latest edition.

Reading	LP in. w.c.	NG (Natural Gas) in. w.c,
Maximum gas pressure	13.0.	10.0
Appliance Regulator Setting for outlet pressure	10.0	5.0

Safety Tips for Gas Operation

- ✓ Keep appliance area clear and free from combustible materials, gasoline, and other flammable vapors.
- ✓ Do not obstruct the flow of combustion air into the range and ventilation air away from the range.
- ✓ Ventilation: it is a must that the unit be set under a powered, vented exhaust hood of sufficient size and capacity.
- ✓ Before installing the range, you must locate and secure the included anti-tip bracket to the wall for your range.



- ✓ The use of cabinets for storage above the appliance may result in a potential burn hazard. Combustible items may ignite; metallic items may become hot and cause burns. If a cabinet storage is to be provided, the risk can be reduced by installing a range hood that projects horizontally a minimum of 5" (12.7cm) beyond the bottom of the cabinets.

Dimension and Clearance



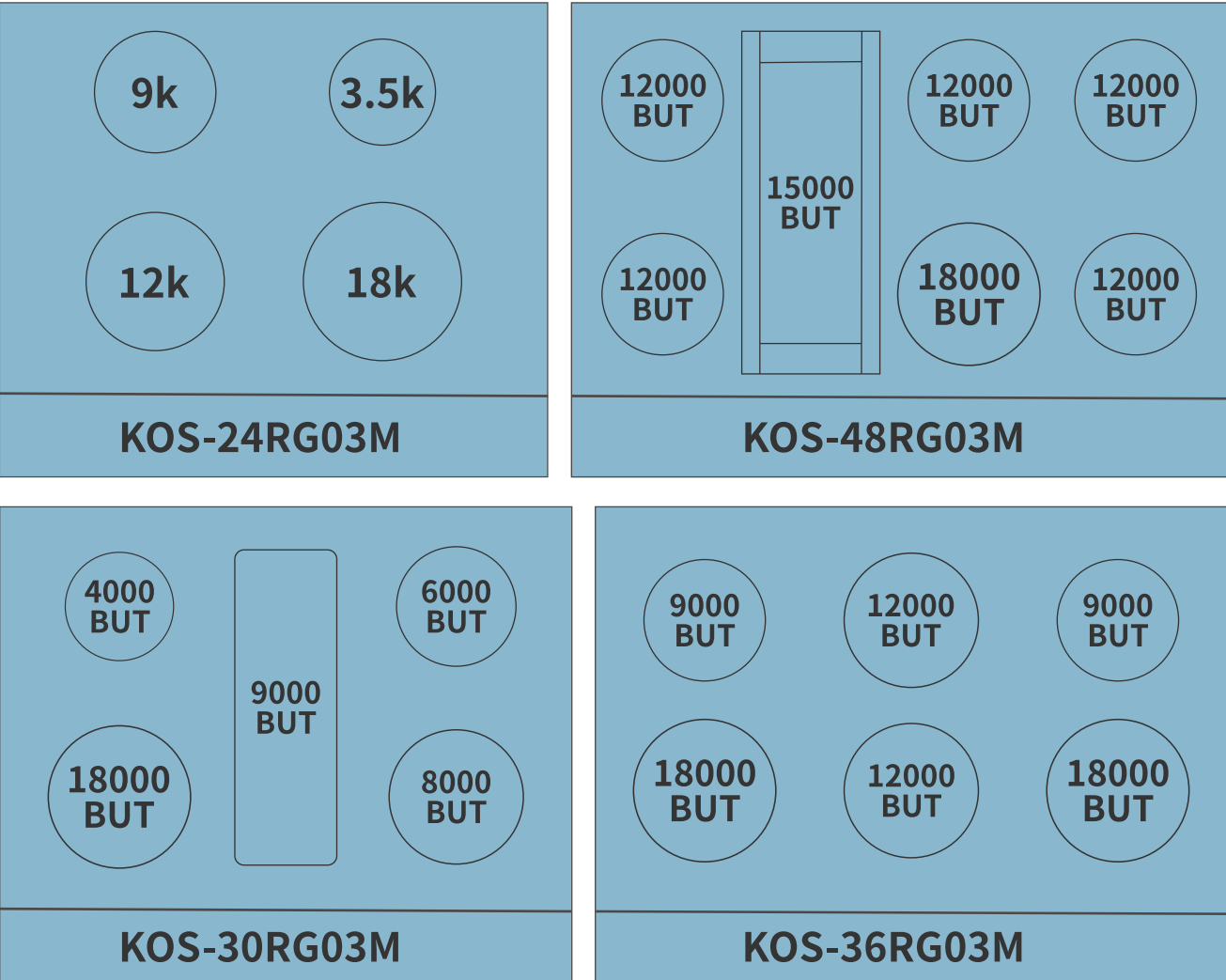
- ✓ The appliance shall not be used for space heating. This information is based on safety considerations.
- ✓ All openings in the wall behind the appliance and in the floor under the appliance shall be sealed.

6. Dimensions and Clearances

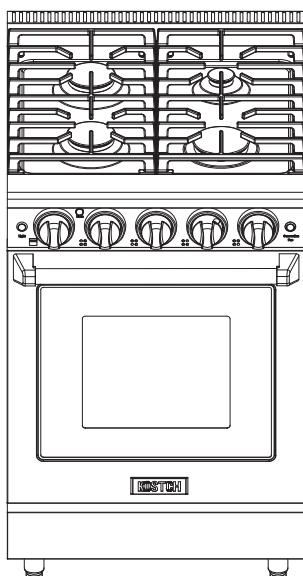
- ✓ The range may be installed flush to the rear wall.
- ✓ You may install a non-combustible material, such as tile, on the rear wall above the range and up the vent hood.
- ✓ It is not necessary to install non-combustible materials behind the range below the countertop height.
- ✓ The minimum distance from the side of the range above the counter top to combustible sidewalls must be at least 10 inches.

Dimension and Clearance

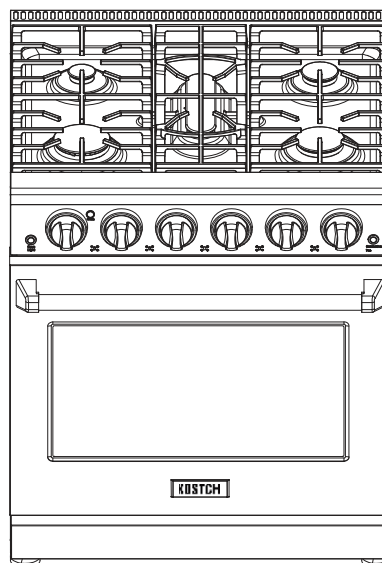
BTU Design



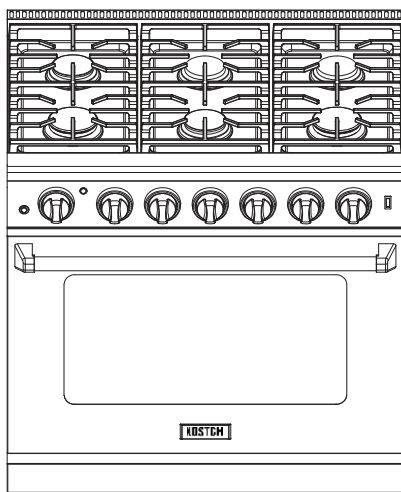
Dimension and Clearance



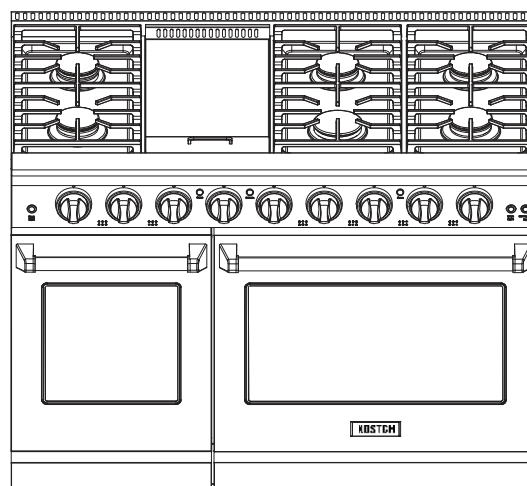
KOS-24RG03M



KOS-30RG03M



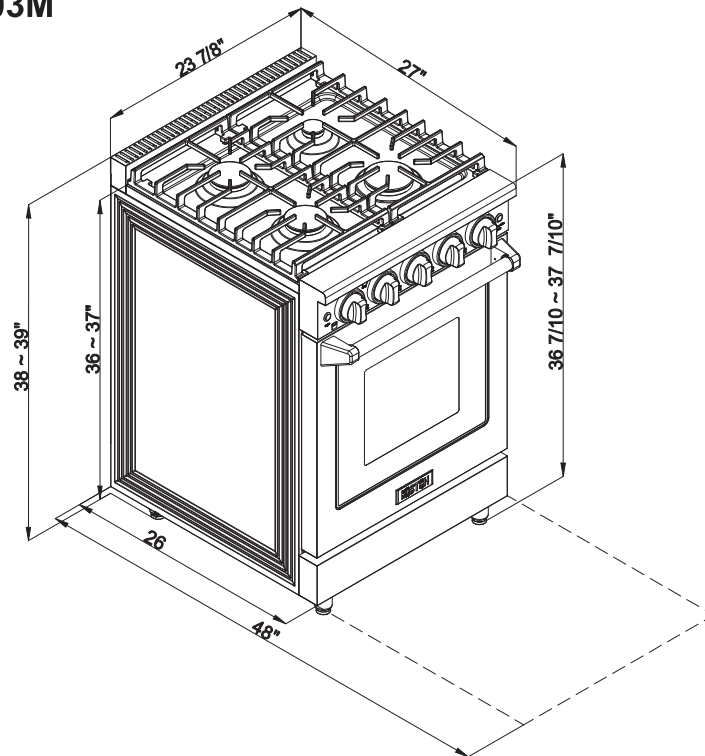
KOS-36RG03M



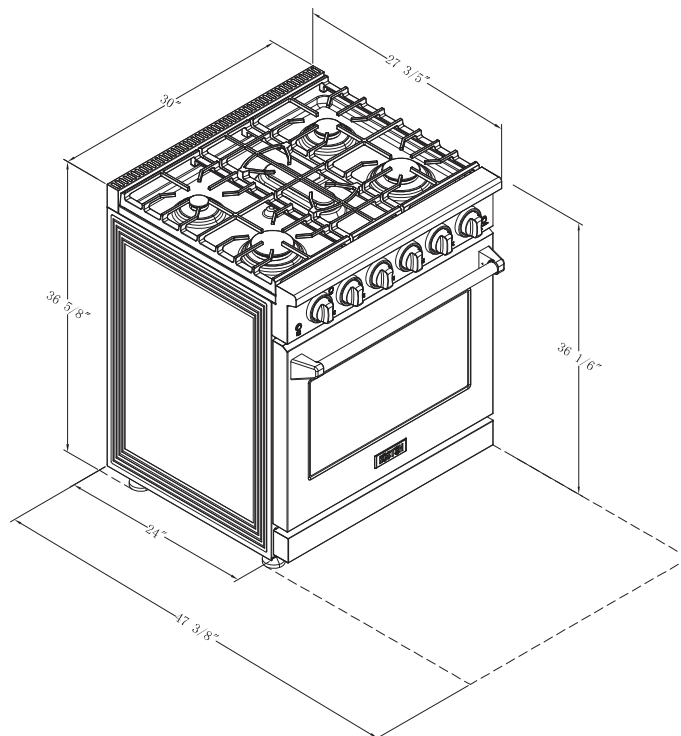
KOS-48RG03M

Dimension and Clearance

KOS-24RG03M

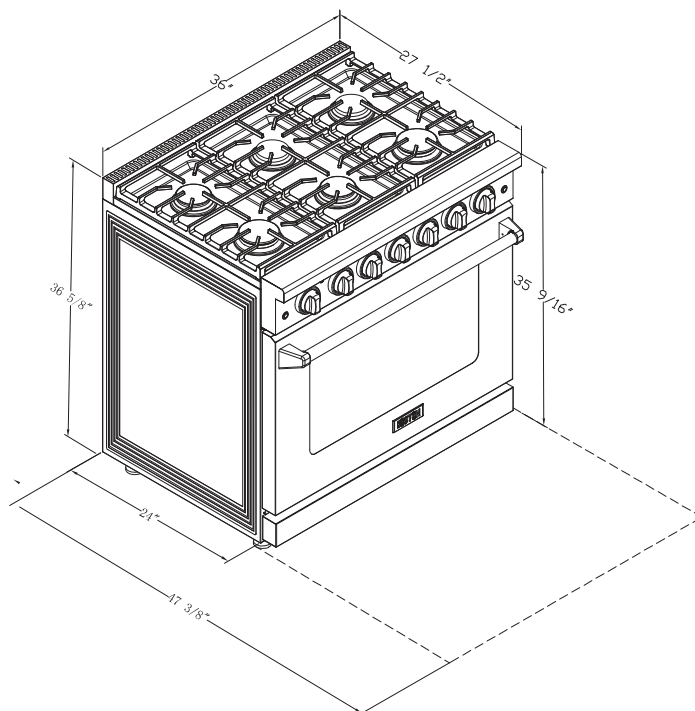


KOS-30RG03M

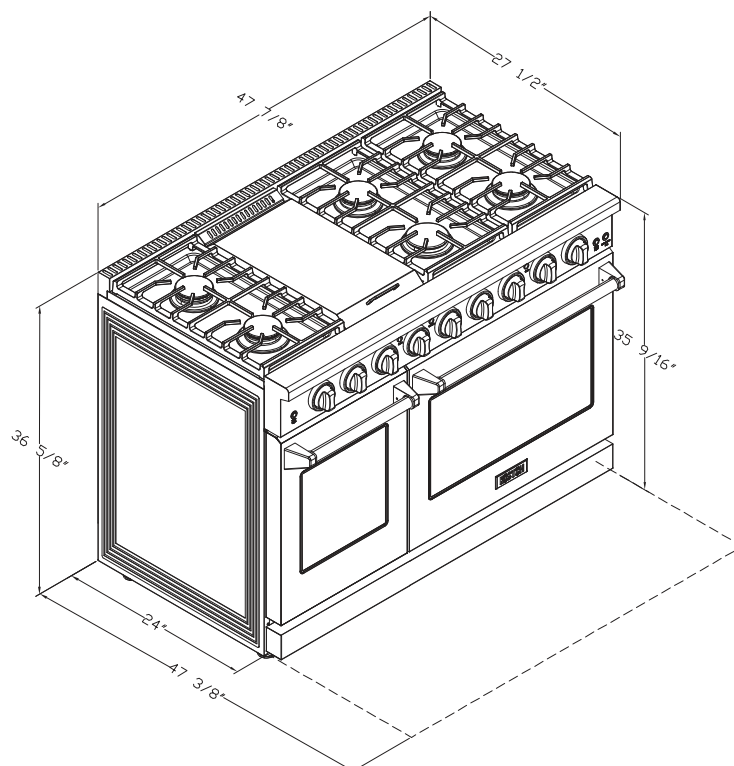


Dimension and Clearance

KOS-36RG03M

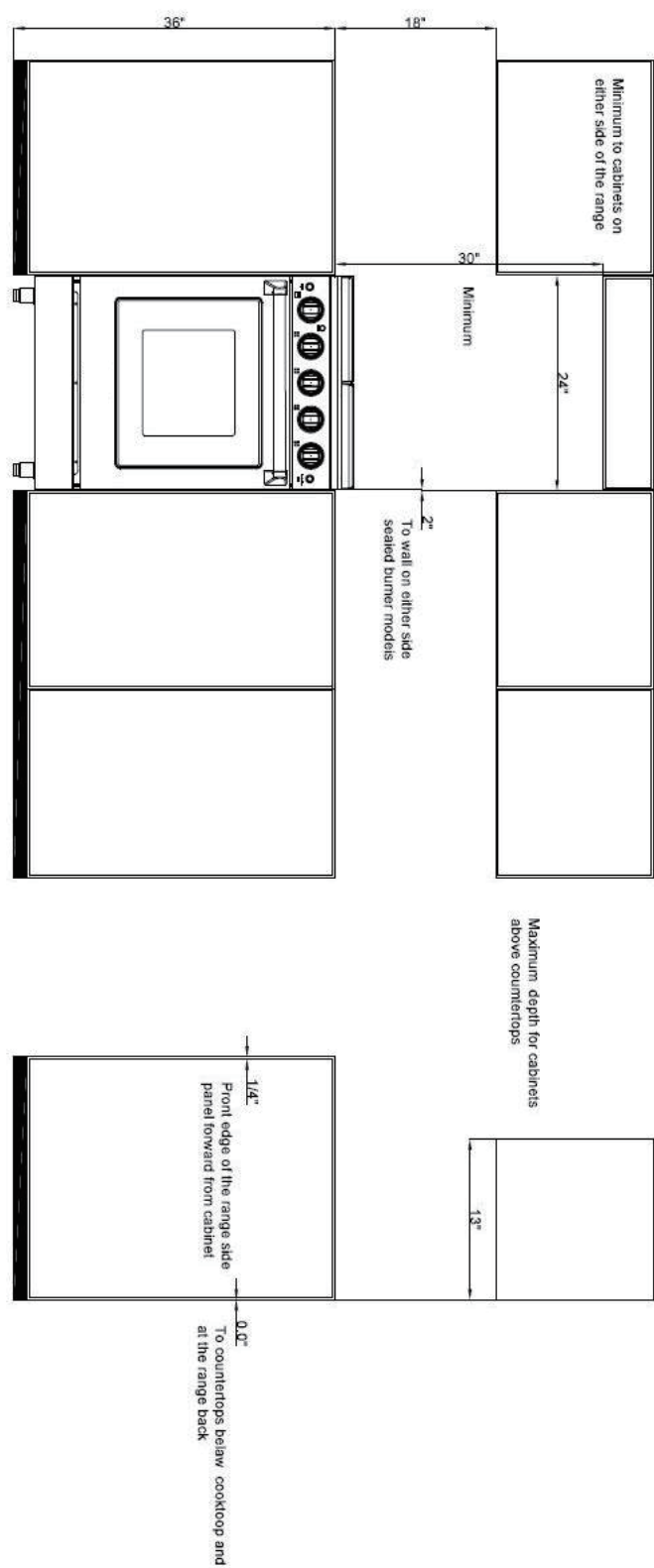


KOS-48RG03M



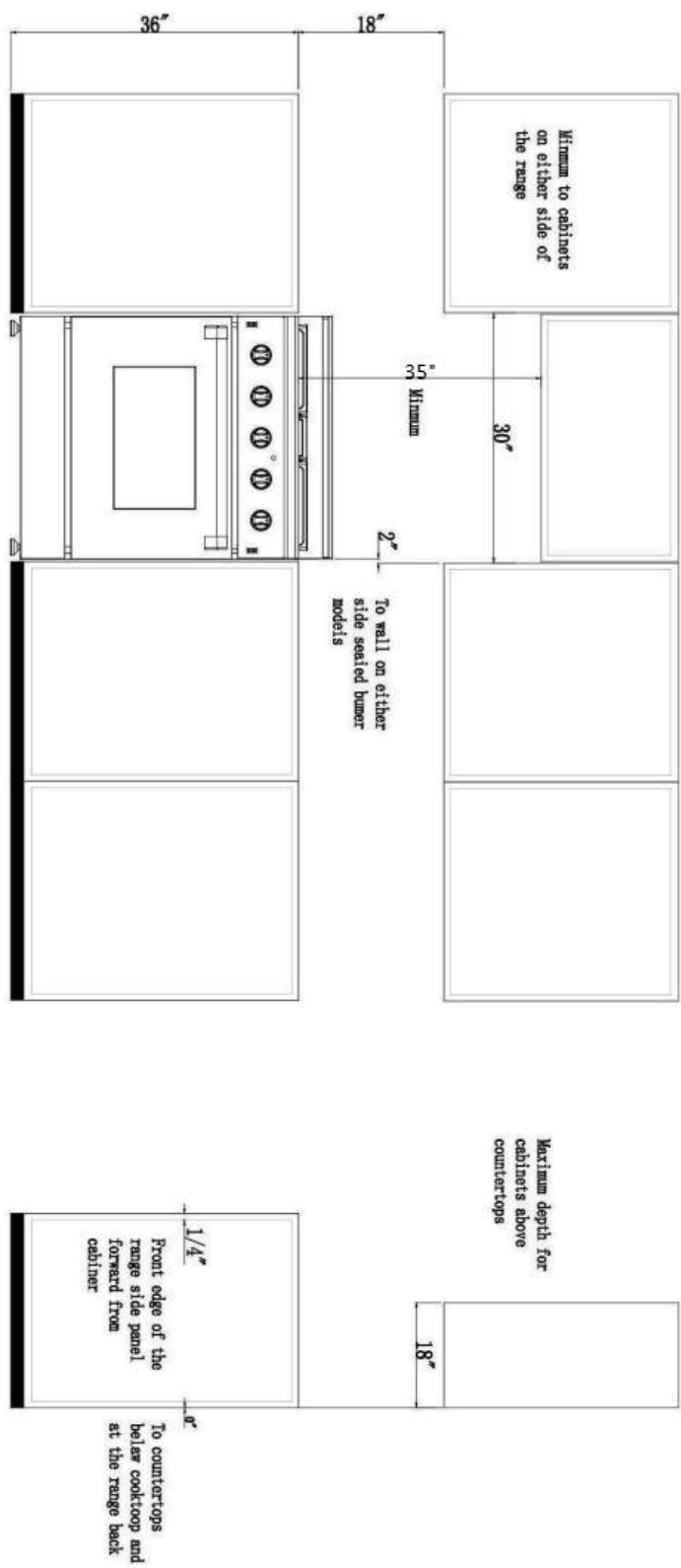
The maximum depth of cabinets installed above cooking tops be 13 in (330mm).

Dimension and Clearance



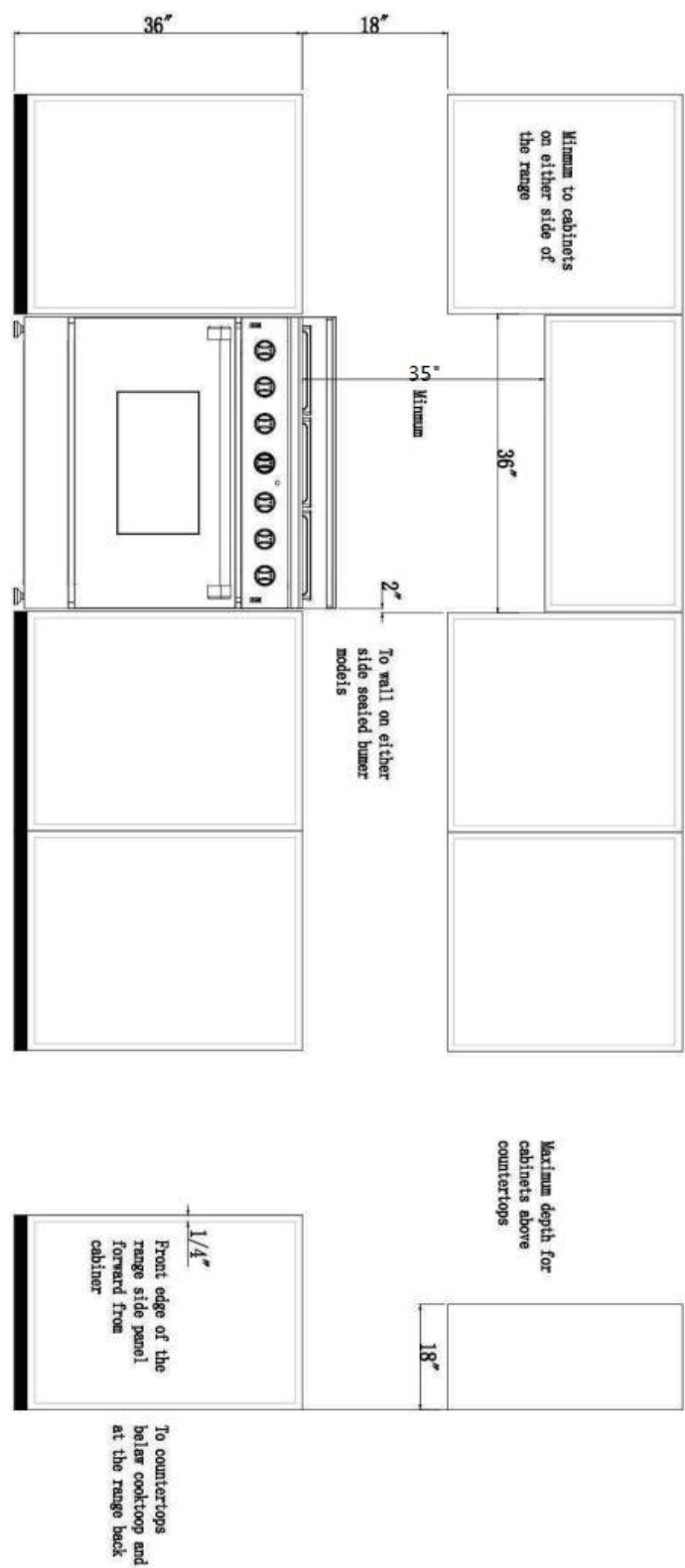
Dimension and Clearance

30" Gas Range Clearance



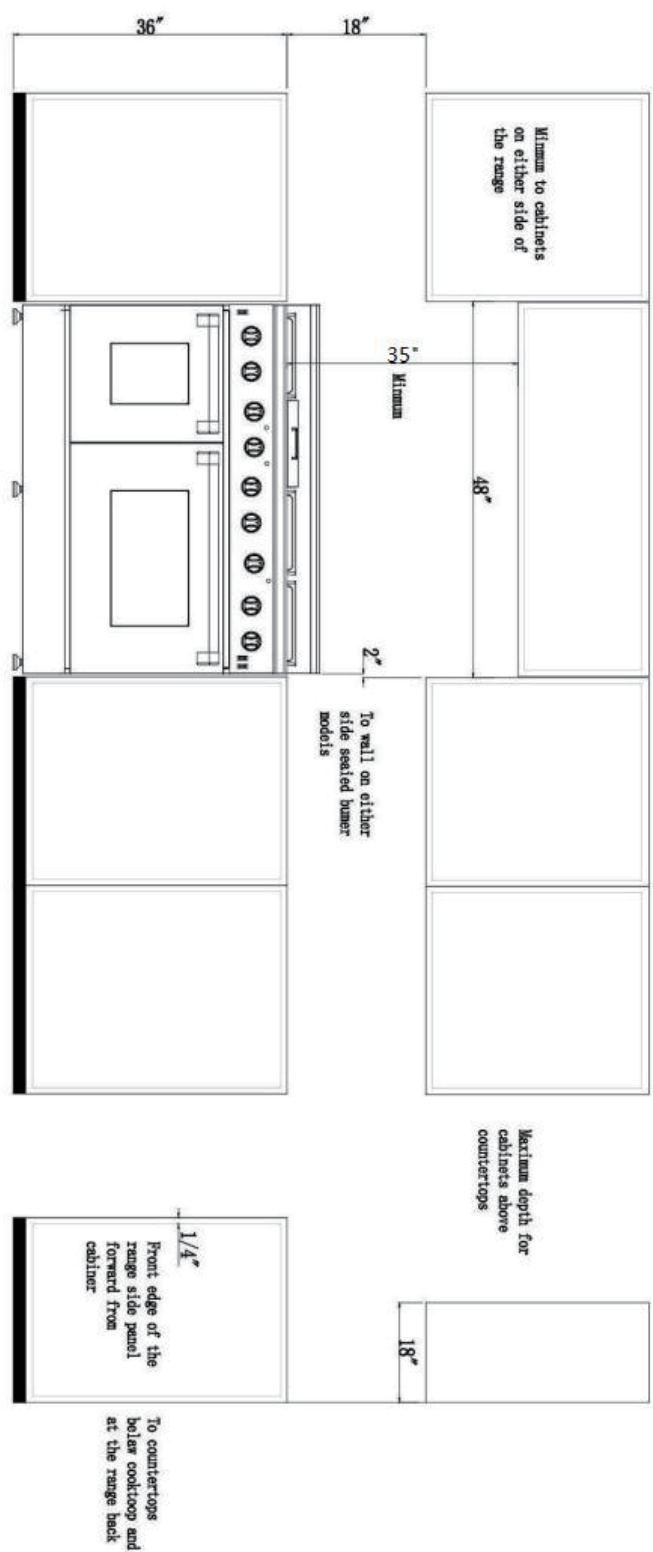
Dimension and Clearance

36" Gas Range Clearance



Dimension and Clearance

48" Gas Range Clearance

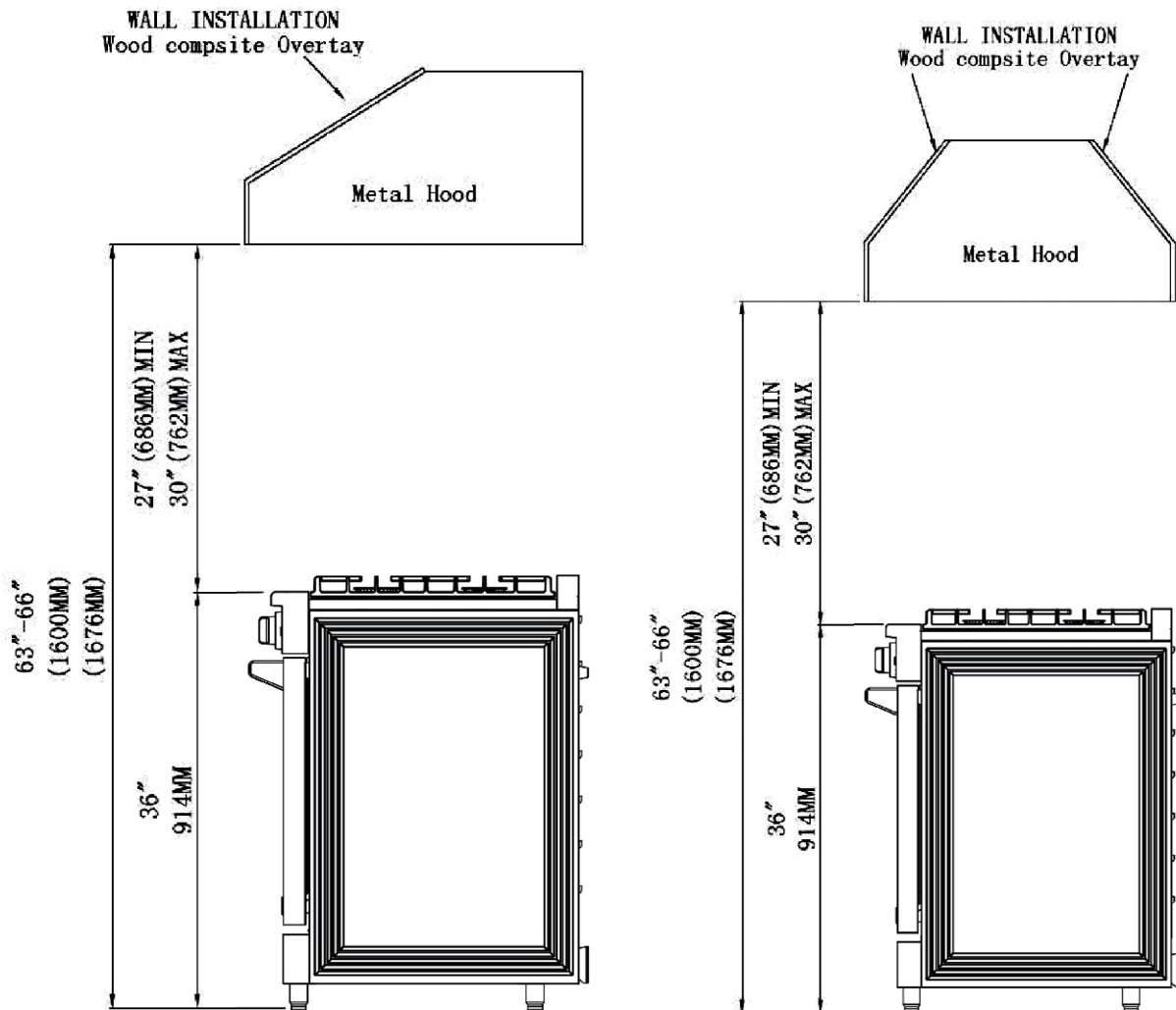


Dimension and Clearance

Top Hood and cabinet specifications

Condition	Minimum clearance allowed
Clearance between the top of the cooking surface and the bottom of an unprotected wood or metal cabinet for any model other than KOS-48RG03M.	35"
Clearance between the top of the cooking surface and the bottom wood or metal cabinet that is protected by not less than: • 1/4-inch-thick flame-retardant mill-board covered with not less than: ○ No. 28 MSG sheet steel or ○ 0.015-inch-thick stainless steel or ○ 0.024-inch-thick aluminum or ○ 0.020-inch-thick copper	24"
Dual fuel ranges clearance between the top of the cooking surface and the bottom of an unprotected wood or metal cabinet for models KOS-48RG03M	40"

Dimension and Clearance



7. Electric Power Supply Requirements

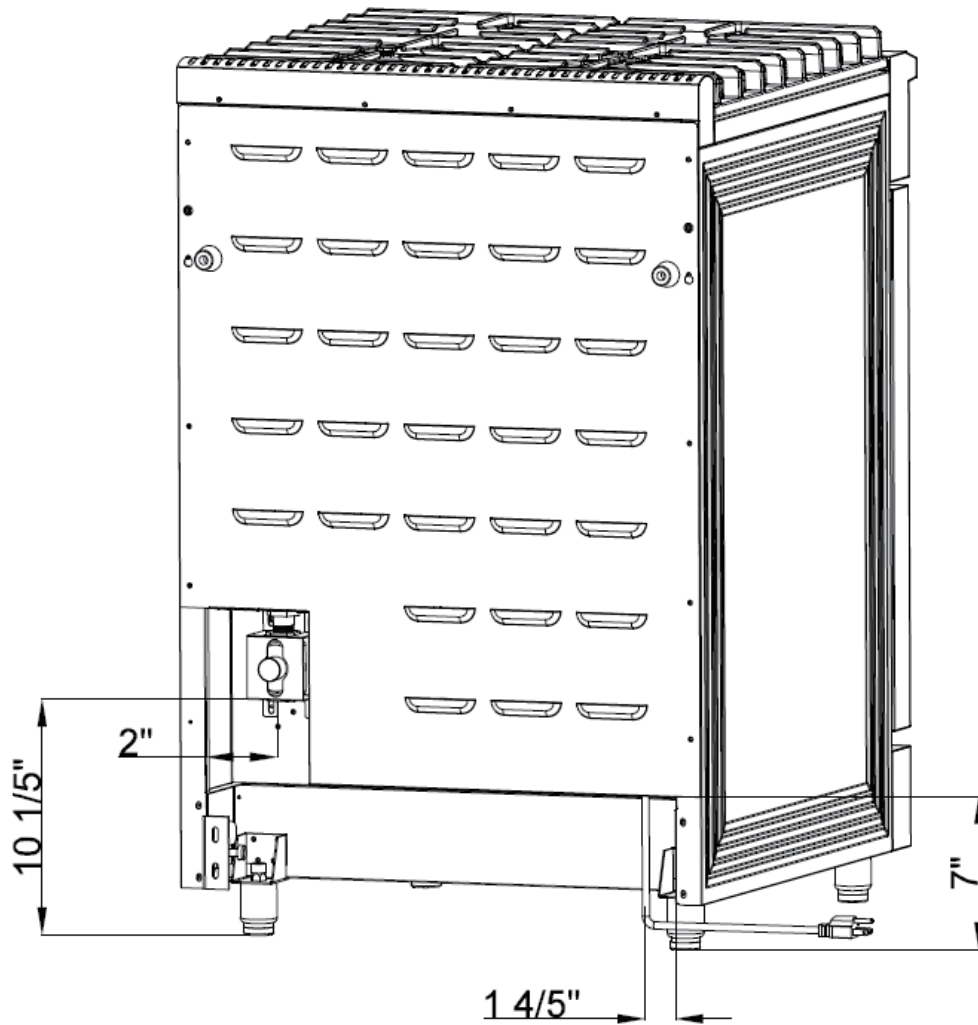
Your range must be electrically grounded in accordance with local codes or, in the absence of local codes, in accordance with the National Electrical Code (ANSI/NFPA 70, latest edition).

In Canada, electrical grounding must be in accordance with the current CSA C22.1 Canadian Electrical Code Part 1 and/or local codes. A copy of this standard may be obtained from: National Fire Protection Association, 1 Battery march Park, Quincy, Massachusetts 02269-9101.

The power supply must be the correct polarity. Reverse polarity will result in continuous sparking of the electrodes, even after flame ignition. If there is any doubt as to whether the power supply has the correct polarity or grounded, have it checked by a qualified electrician.

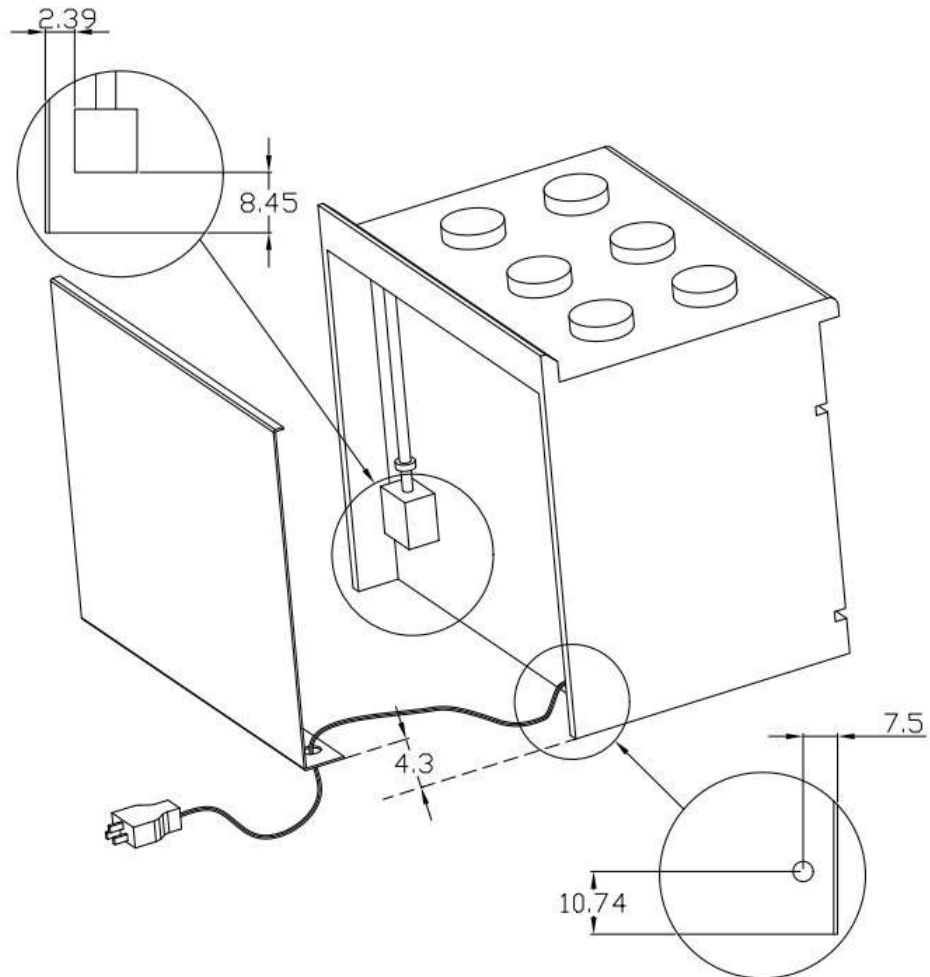
Use 120V, 60Hz, and properly grounded branch circuit protected by a 15-amp or 20-amp circuit

Dimension and Clearance



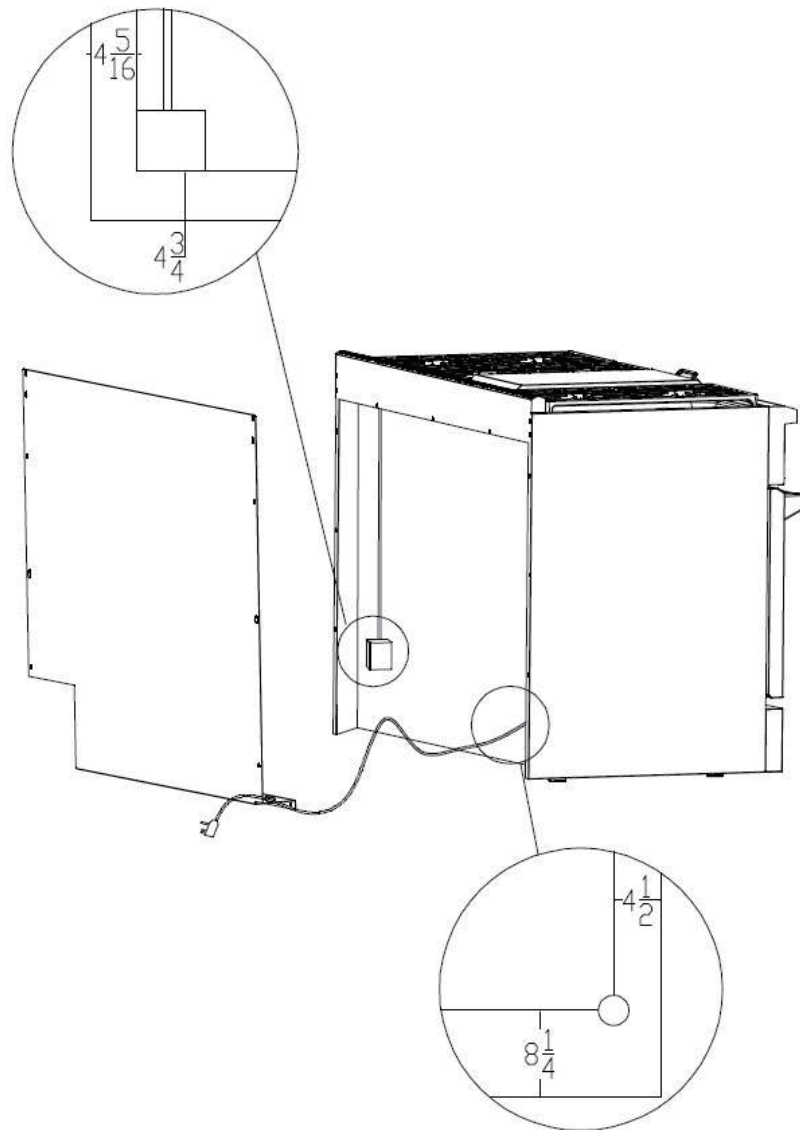
Installation for KOS-RG 24 inches Gas Range

Dimension and Clearance



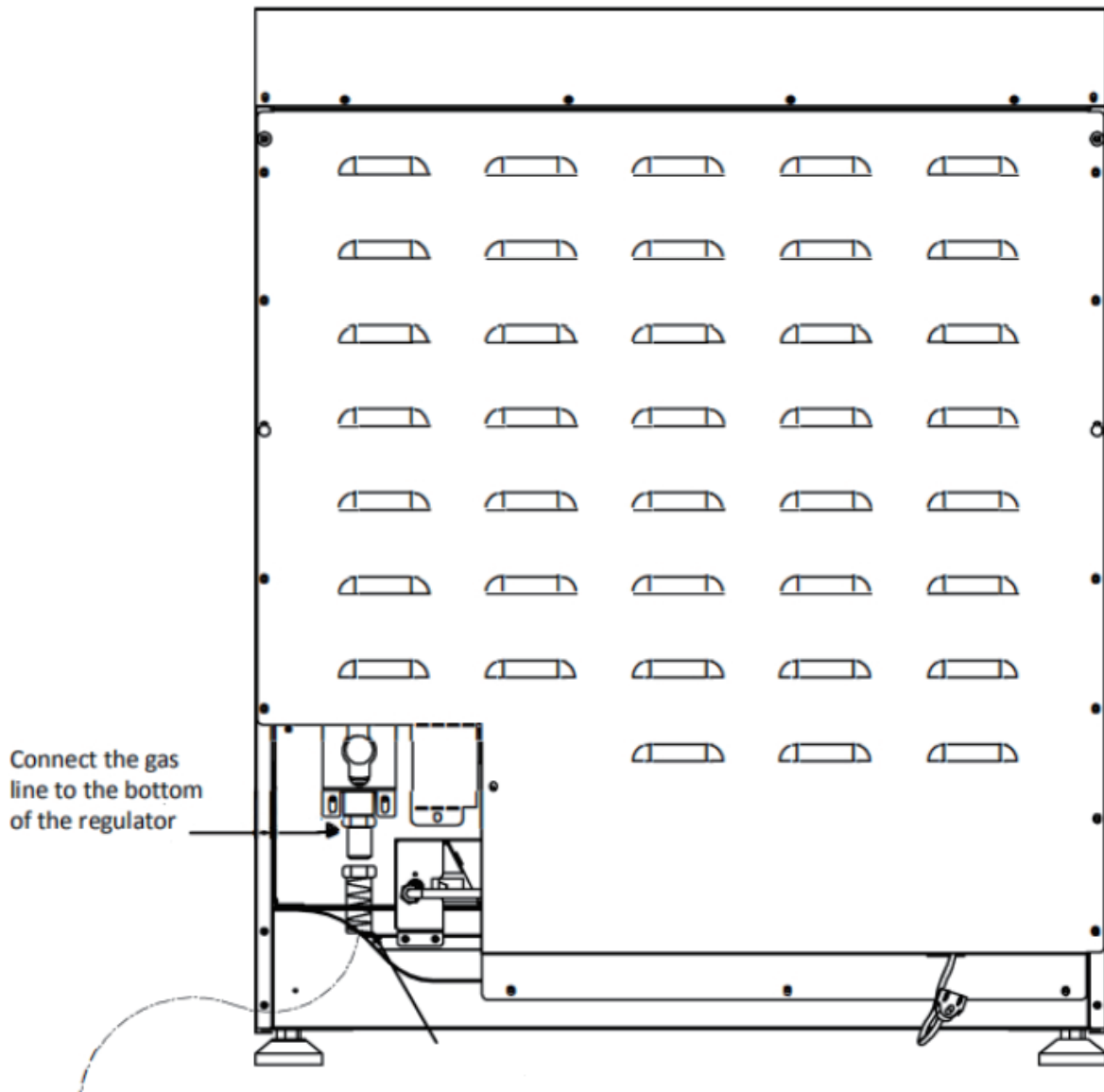
Installation for KOS-RG 30 and 36 inches Gas Range

Dimension and Clearance



Back Layout for KOS-RG 40 inches Gas Range

Dimension and Clearance



Gas Line Connection

Dimension and Clearance

8. Electrical Grounding Instructions



This indoor gas cooking 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-pronged receptacle.

Where a standard two-prong wall receptacle is encountered, it is the responsibility and obligation of the customer to have it replaced with a properly grounded three-prong wall receptacle.

Do not cut or remove the grounding prong from the power cord.

Before connecting plug to the cord, disconnect the electrical supply.

CAUTION

Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.

9. Connect Range to Gas Supply

Most localities will require that the stove shutoff valve and gas connections be installed by a certified technician or plumber. These instructions are for a professional. Gas installation specifications and regulations may vary so please consult your local codes before proceeding.

1. Install a manual gas line shut-off valve in the gas line as follows:

- a. in an easily accessed location outside the range
- b. in the gas piping external to the appliance

2. Install male $\frac{1}{2}$ " flare union adapter to $\frac{1}{2}$ " NPT internal thread elbow at inlet of regulator.

On models equipped with standard twin burners, install the male pipe thread end of the $\frac{1}{2}$ " flare union adapter to the $\frac{1}{2}$ " NPT internal thread at inlet of pressure regulator.

Use a wrench on the regulator fitting to avoid damage.

Dimension and Clearance

1. Install male $\frac{1}{2}$ " or $\frac{3}{4}$ " ($\frac{3}{4}$ " refers to 48-inch gas range) flare union adapter to the NPT internal thread of the manual shut-off valve, taking care to secure the shut-off valve to keep it from turning.
2. The gas supply pressure for checking the regulator setting is 6 in.w.c. (Natural Gas) and 11 inch.w.c. (LP gas) connect flexible gas line connector to the regulator on the range. Position range to permit connection at the shut-off valve.
3. When all connections have been made, make sure all range controls are in the position and turn on main gas supply valve.
4. Leak testing of the appliance shall be conducted according to the manufacturer's instructions. Use some soap water (50% water and 50% soap) or a leak detector at all joints and connections to check for leaks in the system. Do not use a flame to check for gas leaks.
5. The appliance must be isolated from the building's gas supply piping system by closing its individual manual shut-off valve during any pressure testing of the gas supply piping system at test pressure equal to or less than $\frac{1}{2}$ psig(3.5kPa).

After installation:

1. Check ignition of cooktop burners.
2. Check ignition of oven burner.
3. Visually check tubular burner (oven burner) re-ignition to be sure both rows of burner ports are relighting each time.
4. Check for gas leaks at all gas connections (using a gas detector, never a flame).
5. Check oven bake and convection bake function.

Cook Top Safety Guidelines

10. First Use

Conditioning the oven

Conditioning will burn off any manufacturing residues and ensure that you get the best results right from the start.

Follow these steps to condition your new stove's oven:

1. Insert all the shelves. See 'Positioning the shelves' for instructions.
2. Turn on the ventilation hood above your range on high.
3. Heat the empty oven at the highest temperature for:
 - a. 30 minutes using BAKE
 - b. 30 minutes using BROIL (some ovens only).
4. There will be a distinctive smell while you are conditioning the oven. This is normal, but make sure the kitchen is well ventilated during the conditioning.
5. Once cooled, wipe out the oven with a damp cloth and mild detergent, and dry thoroughly.
6. Positioning the shelves
7. Both the sides panel and shelves with safety stop to keep them sliding out of the oven when pulled forward;
8. And the front stop prevents the shelves from against hitting the back of the oven

11. Cooktop Safety Guidelines

There are dual burners have the same low turn-down setting (SIM) for gentle simmering (620 BTU/hr.). Use the SIM setting for melting chocolate and butter, cooking rice and delicate sauces, simmering soups and stews, and keeping cooked food hot.

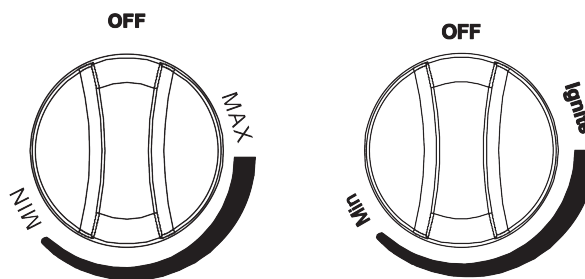
- ✓ Never leave the cooktop unattended when in use. Boil over causes smoking and greasy spills that may ignite.
- ✓ Never allow flames to extend beyond cookware or curl up on sides. This could discolor and damage the utensil and you may get burned touching the hot handle.

Cook Top Safety Guidelines

- ✓ Keep handles out of the way. Turn handles so that they don't extend over the edge of the range or on a burner that is on.
- ✓ Take care when deep-frying. Oil or fat can overheat very quickly, particularly on a high setting.
- ✓ Make sure that all burner parts are properly in place. Incorrectly or incompletely assembled burners may produce dangerous flames. See 'Replacing the burner parts' in 'Care and cleaning'.
- ✓ Keep the burners clean, especially after a spill or boil over, make sure you clean the affected burners before using them again. Food residue may clog the igniter and the notches of the flame spreader, stopping the burner from functioning correctly. See 'Care and cleaning' for instructions.
- ✓ Check that the burner flames. They should be blue with no yellow tipping, and burn without fluttering all around the burner cap. If not, see 'Troubleshooting' for advice.



Surface Burner Ignition



(KOS-RG48" Gas Range Top Burner)

To light the top burners, push and turn the appropriate control knob counter clockwise to the "HI" position. You will hear a clicking noise – the sound of the electric spark igniting the burner. Once burner ignition has been achieved, then turn the burner control knob to adjust the desired heat setting.

Cook Top Safety Guidelines

NOTE: When one burner is turned to the "HI" position, the burner igniters will park. Do not attempt to disassemble or clean around any burner while another burner is on. Do not touch any burner cap, burner base, or igniter while the igniters are sparking.

Simmer and Boil

1. A smaller flame will give the best simmer results. Small flames offer precise cooking performance for delicate foods, keeping food warm, melting chocolate or butter, and for cooking that need to cook over low heat for a long time.
2. The highest flame settings provides the maximum heat that is available on your range. This setting should be used for heavy cooking loads such as water boiling or pasta cooking.

Flame Size

When you select the flame size, watch the flame when you turn the knob.

Any flame larger than the bottom of the cookware is wasted. The flame should be steady and blue in color. Foreign material in the gas line may cause an orange flame during initial operation.

Power Failure

If the gas does not ignite within four seconds, turn off the valve and allow at least five minutes for any gas to dissipate. Repeat the lighting procedure.

If the power fails, it is not capable of being safely placed in operation and user that no attempt should be made to operate during power failure.

Cooktop

To prevent the cooktop from discoloring or staining, clean cooktop after each use, and wipe up acidic or sugary spills as soon as the cooktop has cooled.

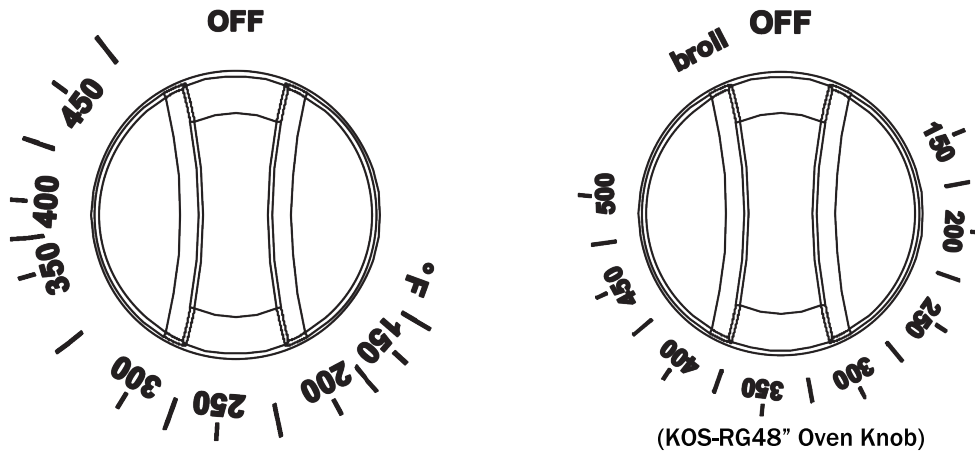
The sealed burners of your range are not sealed to your cooktop and are designed to be removed. Boil overs or spills will not seep underneath the cooktop. The burners should be cleaned after each use.

Burner Grates

The grates must be properly positioned before cooking. Improper installation of the grates may result in scratching of the cooktop and / or poor combustion.

Cook Top Safety Guidelines

Oven burner use



To light the oven burner, push and turn the appropriate control knob counter clockwise to the (150 °F ~500 °F) position. You will hear a clicking noise – the sound of the electric spark igniting the burner. Once burner ignition has been achieved, then turn the burner control knob to adjust the desired heat setting.

Broil burner use

To light the broiler burner, push and turn the appropriate control knob clockwise to the broil position. You will hear a clicking noise – the sound of the electric spark igniting the burner. Keep pressing about 4 seconds until the burner ignition has been achieved.

IMPORTANT

Oven cooking guidelines

- ✓ Do not block the ducts on the rear of the range when cooking in the oven. It is important that the flow of warm air from the oven and fresh air into the oven burner never be interrupted. Avoid touching the vent opening or nearby surfaces during oven or broiler operation because they are hot.
- ✓ Use all the oven modes with the oven door closed.
- ✓ Never use aluminum foil to cover the oven shelves or to line the floor of the oven. The trapped heat can irreversibly damage the enamel and may even cause fire.

Cook Top Safety Guidelines

- ✓ Do not place water, ice, or any dish or tray directly on the oven floor, as this will irreversibly damage the enamel.
- ✓ Do not cover the slotted grid of the broil/roast pan with aluminum foil. This will catch the grease and could cause fire.
- ✓ Do not use plastic wrap or wax paper in the oven.
- ✓ For food safety reasons, do not leave food in the oven for longer than two hours before and after cooking or defrosting. This is to avoid contamination by organisms which may cause food poisoning. Take care during warmer weather.



According to the United States Department of Agriculture: DO NOT hold foods at temperatures between 40°F to 140°F more than 2 hours. Cooking raw foods below 275°F is not recommended.



Never cover any slots, holes or passages in the oven bottom or cover an entire rack with materials such as aluminum foil. Doing so blocks air flow through the oven and may cause carbon monoxide poisoning.

Aluminum foil lining may also trap heat, causing a fire hazard.

12. Oven Function

Natural Airflow Bake

Occurs when heat is transferred into the oven from the bake burners in the bottom of the oven cavity. Heat is then circulated by natural airflow. This is a traditional bake setting.

Infrared Broil

The broil burner is located at the top of the oven. This burner heats the metal screen until it glows. The glowing screen produces the infrared heat, searing the outside of broiled foods and sealing in juices.

Convection Bake

The oven convection fan circulates and distributes the heat in the oven for faster and even cooking. Convection cooking allows you to bake more items on multiple racks.

To bake using the convection fan:

1. Position the oven bottom cover and the oven shelves before using oven.
2. Remove any unused shelves and baking utensils from the oven.
3. Preheat the oven to the temperature stated in the recipe. Depending on the temperature and the size of the oven, preheating will take around 15-20 minutes.
4. Arrange pans and food items evenly on the shelves. Make sure pans do not touch each other or the sides of the oven. When baking a single item, always center the item on the oven shelf. If baking on multiple shelves, make sure you stagger items on the shelves so that one is never directly above another.
5. When baking using convection, either reduce the temperature stated in the recipe and leave the baking time unchanged, or reduce the baking time by several minutes and leave the temperature unchanged. For foods with a baking time of over an hour, reducing both the temperature and time slightly may give the best results.
6. Dark metal baking pans or those with a dull finish absorb heat faster than shiny pans, and are excellent for pies and breads, or anything that needs browning or a crisp crust.
7. A shiny finish may work best for foods that require lighter, delicate browning (e.g. cakes and cookies), as it reflects some heat and gives a less intense baking surface.
8. Avoid opening the oven door frequently during baking.

Oven Function

Convection Roast

For best results use the broiler pan. The pan is used to catch grease spills and has a cover to prevent grease splatter.

The convection fan circulates heated air over the food being roasted, sealing juices quickly for a moist and tender product while, at the same time, creating a rich golden-brown exterior.

Use the broil/roast pan and slotted grid supplied with the range when roasting in order to elevate the meat on a metal roasting rack. This allows hot air to circulate around the meat, browning it more evenly like a rotisserie. A suitable roasting rack can be purchased through your HRG by the distributor or Customer Care.

When roasting larger items like a whole turkey, use only the pan and grid for greater stability.

Convection Defrost

With temperature control off, a motorized fan in the rear of the oven circulates air. The fan accelerates natural defrosting of the food without heat. To avoid illness and food waste, do not allow defrost food to remain in the oven for more than two hours without being cooked.

Defrosting

To thaw uncooked frozen food, set the oven temperature to 100-150°F. Once thawed, cook the food immediately and do not refreeze.

To prevent liquid from thawing food dripping on the oven floor, be sure any uncooked food is tightly wrapped in foil and/or placed in a container.

Convection Dehydration

With the temperature control on 175 °F, warm air is radiated from the bake burners on the bottom of the oven cavity and is circulated by a motorized fan in the rear of the oven.

Over a period of time, the water is removed from the food by evaporation. Removal of water increases growth of microorganisms and detains the activity of enzymes.

Oven Function

13. Broiler Operation

Note: Door must be closed during broiler operation.

Broiling is a method of cooking tender cuts of meat directly under the infrared broiler in the oven. Broiling in the oven is accomplished with the oven door closed. It is normal and necessary for some smoke to be present to give the food a broiled flavor.

If you open the oven door to check the food, have it open for as short a time as possible. This is to prevent the control panel from overheating and prevents melted knobs.

Use both the broil/roast pan and slotted grid supplied. The grid helps to reduce smoking and splatter by letting grease drip into the bottom of the pan, away from intense heat. To prevent food sticking, spray the grid with a light coating of non-stick cooking spray.

Preheating

Preheating is suggested when searing rare steaks (Remove the broiler pan before preheating with the infrared broiler. Foods will stick to hard metal). To preheat, turn the “Oven” selector knob to the “Broil” position. Wait for the burner to become hot, approximately 2 minutes. Preheating is not necessary when broiling meat well-done.

To Broil

Broil one side until the food is browned; turn and cook on the second side. Season and serve. Always pull the rack out to the “stop” position before turning or removing food.

Setting Broil

The “Oven” selector knob controls the Broil feature. When broiling, heat radiates downward from the oven broiler for even coverage. The Broil feature temperature is 500 °F (260 °C).

The broil pan and insert used together allow dripping grease to drain and be kept away from the high heat of the oven broiler. DO NOT use the broil pan without the insert.

DO NOT cover the broil pan insert with foil. The exposed grease could catch fire.

Oven Function

To set the oven to Broil:

1. Place the broiler pan insert on the broiler pan. Then place the food on the broiler pan insert.
2. Arrange the interior oven rack and place the broiler pan on the rack. Be sure to center the broiler pan and position directly under the broil burner. If preheating the broil burner first, position the broiler pan after the broil burner is preheated.
3. Turn selector knob to Broil.

The oven indicator light will remain on until the selector knob is turned to the off position or the temperature control cycles off.

Broiling guidelines

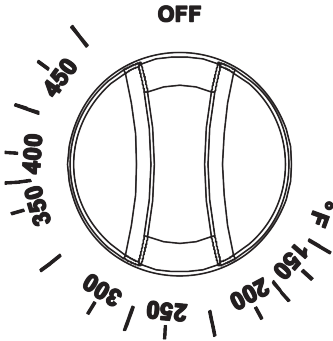
Choose a suitable shelf position. To ensure that meat is cooked through rather than just browned on the outside, broil thick pieces of meat and poultry on shelf positions 2 or 3. Use shelf position 4 for thinner items that need less cooking time like steaks, chops, or hamburger patties.

When finishing off meals by browning the top under the broiler, use metal or glass-ceramic bakeware. Do not use heatproof glass or earthenware, as these cannot withstand the intense heat of the broiler.

Center the item in the oven, so that it is directly under the broiler.

Oven Function

For the models with Griddle



(KOS-48RG03M” Griddle Knob)

Before Using the Griddle

1. Clean the griddle thoroughly with warm, soapy water to remove dust or any protective coating.
2. Rinse with clean water and wipe off to dry with soft, clean, lint-free cloth.
3. A stainless-steel cover when the griddle is not being used is provided. Please note that the cover must be removed before turning the griddle on.
4. Make sure the grease tray is under the front edge of the griddle. Position the tray under the griddle overhang to catch grease or food residue.

Use of the griddle

1. Push and turn the control knob counter-clockwise to the preferred cooking temperature.
2. Preheat the griddle for 10-12 minutes.
3. When the griddle is preheated to the desired temperature, the indicator light will turn on.
4. Butter or cooking oil can may be added.



- ✓ The surface of the griddle is hot after use. Please allow sufficient time for the griddle to cool prior to cleaning.
- ✓ When using the appliance or the first time. The oven and broiler burners should be turned on to burn off the manufacturing oils. Turn the oven on to 450 °F (230 °C) for 20 to 30 minutes. Then turn the oven control knob to “Broil” for the same length of time. It is recommended to turn on the ventilator above the range at this time.
- ✓ Must disconnect the electrical supply before servicing or cleaning the appliance. Failure to follow this advice may result in injury or death.

Cleaning Instructions

14. Cleaning Instructions

Do's

- ✓ Read these cleaning instructions and the 'Safety and warnings' section before you start cleaning your range.
- ✓ Before cleaning or removing any part, make sure that everything on the range has been turned off.
- ✓ Unless suggested otherwise in the following chart, allow any part to cool to a safe temperature before cleaning. If you do need to handle a warm or hot part (e.g. grill or griddle), take extreme care. Wear long protective mitts to avoid burns from steam or hot surfaces.
- ✓ Try using any cleaner on a small area first, to ensure it does not stain.
- ✓ See the pages following this chart for instructions on removing and replacing various parts of the range for cleaning or maintenance.
- ✓ To help you identify any parts, see illustrations in section 'Introduction' and after this cleaning chart.

Don'ts

- ✓ Do not use aerosol cleaners until the range has completely cooled. The propellant substance in these cleaners could catch fire in the presence of heat.
- ✓ Do not let soiling or grease accumulate anywhere in or on the range. This will make future cleaning more difficult and may present a fire hazard.
- ✓ Do not use any abrasive or harsh cleaners, cloths, scouring pads or steel wool. These will scratch your range and damage its appearance.
- ✓ Do not use a steam cleaner to clean any part of the range.
- ✓ Do not lift the black grill and griddle frames off the cooktop.

Cleaning Burner caps and brass flame spreaders

1. Check that the burner is turned OFF and allow it to cool. Lift off the burner cap and brass flame spreader. Wash them in hot soapy water, rinse, and dry.
2. Use a stiff nylon brush or straight-ended paper clip to clear the notches of a flame spreader. Replace the flame spreader and burner cap correctly.

Cleaning Instructions

3. Before cleaning the cooktop, ensure that all burners are turned off and that all components are cool enough to safely touch
4. To avoid electrical shock or burns, turn off controls and ensure the cooktop is cool before cleaning.
5. Do not use harsh or abrasive cleaning detergents, waxes, polishes, or commercial cooktop cleaners to clean the cooktop.
6. Use only a sponge, soft cloth, fibrous or plastic brush, and nylon pad for cleaning.
7. Always dry components completely before using the cooktop.
8. Control Panel, Door Handle, Control Housing

Clean the control panel, door handle and control housing with a solution of mild detergent and warm water.

9. Do not use abrasive cleaners or scrubbers; they may permanently damage the finish.
10. Dry the components with a soft, lint-free cloth.

Cleaning side racks

1. Pre-soak any stubborn, burnt-on soiling, then clean with a solution of mild detergent and hot water and wipe dry with a microfiber cloth.
2. Alternatively, clean these in the dishwasher.

Cleaning oven shelves

1. To remove stubborn or 'baked-on' soiling, scrub with a dampened, soap-filled, non-metal, non-abrasive pad, then wipe dry.
2. Apply a chrome cleaner with a damp sponge or cloth following manufacturer's instructions.
3. Wipe and dry.

Cleaning broil/roast pan and slotted grid

- ✓ Pre-soak any stubborn soiling in a solution of mild detergent and hot water.
- ✓ Wash by hand or in a dishwasher.

Cleaning Instructions

Cleaning bake and broil burners

- ✓ Do not clean these parts. They self-clean during normal use.

Cleaning porcelain surfaces

Clean oven interior and inner door liners with a solution of mild detergents and hot water. Rinse and dry with a soft, lint-free cloth. Do not use abrasives or commercial oven cleaners.

Cleaning the oven glass window

- ✓ Clean all glass surfaces with a solution of mild detergent and hot water. Use a mild glass cleaner to remove fingerprint or smears.
- ✓ Dry completely with a soft, lint-free cloth.

Cleaning the oven door gasket

Avoid cleaning this part. If you need to remove large food particles off it, proceed as follows:

1. Dampen a sponge with clean hot water.
2. Gently wipe off the soiling, but do not rub.
3. Press a dry towel gently on the gasket to dry.

Do not use any cleaning detergents on the gasket. The gasket is essential for a good seal.

CAUTION: Do not scratch, displace, or damage it.

Cleaning stainless steel surfaces

- ✓ Do not use any cleaning product with chlorine bleach.
- ✓ Do not use a steel wool pad; it will scratch the surface.
- ✓ Use a hot, damp cloth with a mild detergent.
- ✓ Use a clean, hot, damp cloth to remove soap. Dry with a dry, clean cloth.

Removing the Oven Door

15. Removing and replacing the oven door

Do not lift the oven door by its handle. Doing so may damage the door.

Make sure the oven and the door are cool before you begin to remove the door.

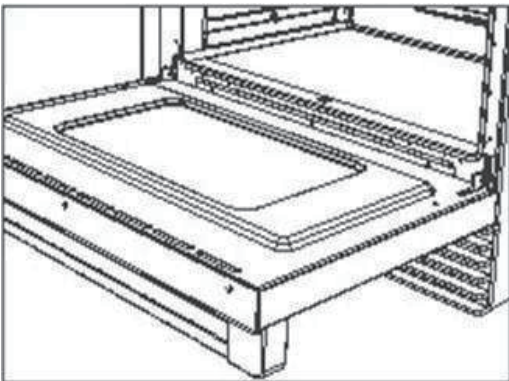
IMPORTANT

Before removing the door, make sure there is a large enough clear, protected surface in the kitchen to rest the door on.

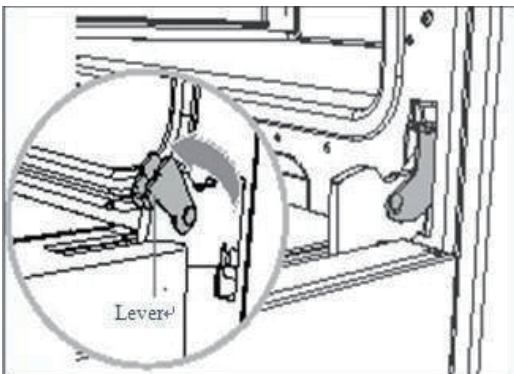
The oven door is heavy!

Removing the oven door

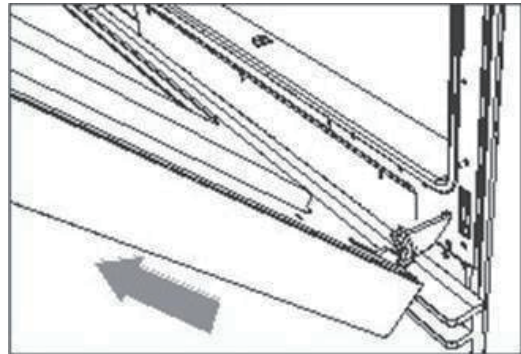
1. Open the door very carefully



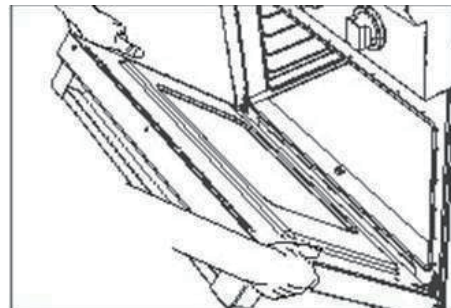
2. Open the levers fully on both sides.



3. Holding the door firmly on both sides



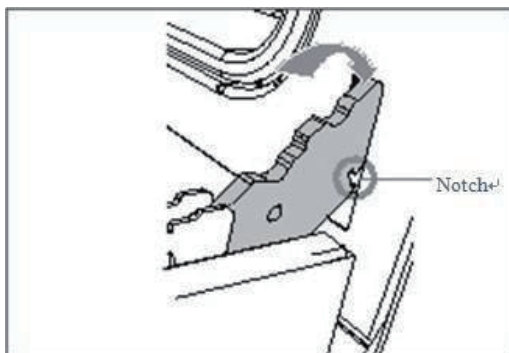
4. Disengage the hinges and remove the gently close it about halfway door, place on a protected surface.



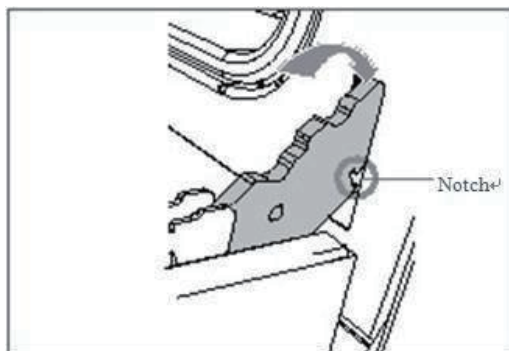
Removing the Oven Door

Replacing the oven door

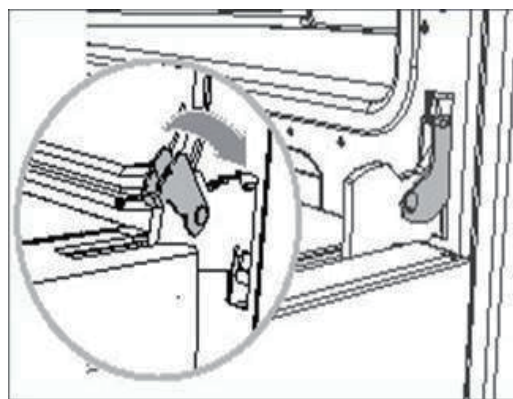
1. Hold the door firmly in an approximately open position.



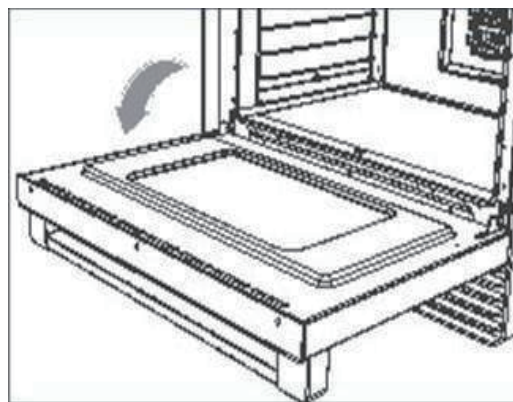
2. Insert the hinge tongues into the slots making sure that the notches on both sides drop into place as shown.



3. Open the door fully as shown.



4. Fully close the levers on the left and right hinges, as shown, then close the door.



Troubleshooting Guide

16. Troubleshooting Guide

If you can't find an answer to your problem in the chart below, or if the problem cannot be fixed, you will need technical help. Contact your Authorized Service Center or Customer Care.

Problem	Probable causes	What to do
Cooktop		
Some burners will not light. Flames do not burn all around the burner cap.	Burner parts or igniters may be wet, dirty, or misaligned.	Check that the burner parts are clean, dry, and correctly assembled. Check that the igniters are clean and dry. See 'Care and cleaning' for instructions.
Burner flames very large and yellow.	Burner bezel ports are clogged. Burner ports or burner caps are not positioned properly. Cooktop is being operated with the wrong type of gas. Regulator is not installed, is faulty, or is set for the wrong type of gas.	Clean burner bezel ring ports with straightened paper clip, needle, or wire. Remove and carefully re-install burner bezel and caps. Ensure that the type of cooktop matches the natural gas supply. Check installation, replace regulator, or set regulator for proper gas.
Sparkling but no flame ignition.	Gas shut-off valve is in the 'OFF' position.	Turn shut-off valve to the 'ON' position.
Igniters spark continuously after flame ignition.	Power supply polarity is reversed. Igniters are wet or dirty.	Have polarity corrected. Dry or clean igniters.
Burner flame goes out at low setting.	Low gas supply pressure. Air intake holes around knobs are obstructed.	Contact gas company. Remove obstruction.

Troubleshooting Guide

The flames have suddenly gone out.	A draft or a spill has extinguished the flame.	No action required. The burner will detect this and automatically relight. However, if there has been a large spill, we recommend turning the burners off and cleaning the burners and sump area. See ‘Care and cleaning’ for instructions.
There is a power failure – can I still use the cooktop burners?	Power outage in your area.	The cooktop burners can still be used. To light them: flame spreader, push in on the control knob and turn counterclockwise to LITE. Way around the burner, you may adjust the heat. Important! If the flame is blown out during a power failure, turn the knob immediately to OFF, as the burner will not automatically relight and gas may escape.

Trouble Shooting Guide

Problem	Possible causes	What to do
Oven		
The oven doesn't work (no heating).	No power supply (oven light and halos do not come on either). No gas supply (gas ovens).	Check that the circuit breaker hasn't tripped and there is no power outage in your area. If there is a power outage, you cannot use the oven until power has been restored. The supply to the house may not be working or there may be an outage. Contact your local gas supplier.
One of the oven lights does not come on, but the oven works.	The light bulb is loose. The light bulb has blown.	See instructions for 'Replacing the oven light bulb' in section 'Care and cleaning'. Instead of replacing the bulb, simply ensure that it is secure in its socket. Replace the bulb. See instructions for 'Replacing the oven light bulb' in section 'Care and cleaning.'
Condensation around oven (e.g. on control panel or top of oven door.)	Food has high moisture content or local climate (temperature, humidity) is contributing to condensation.	Condensation is normal. You can wipe the drops off the control panel. If there is frequent or excessive condensation, make sure that cabinetry around the range is moisture-proofed.
Steam coming from oven vents at the back of the range.	Moisture from food evaporating during cooking.	This is normal, especially if you are cooking large quantities of food in the oven using a CONVECTION mode.
The convection fan does not come on in a	Technical fault.	Contact your Authorized Service Center or Customer Care.

Trouble Shooting Guide

CONVECTION mode.		
Oven will not heat	Oven settings are not corrected	Follow mode selection and clock settings as specified in Oven Operation section of the manual.
Foods over-cooked or under-cooked	Incorrect cooking time or temperature.	Adjust time, temperature, or rack position.
'Cracking' or 'Popping' sound.	This is the sound of metal heating and cooling.	This is normal.
There is a power failure – can I still use the oven?	Power outage in your home or neighborhood.	The oven cannot be used until power is restored.

Warranty & Service

Warranty & Service

This product has been manufactured by Shanghai Hanyi E-commerce Co., Ltd.

Rm. 502-16, No. 27 Meisheng Rd. China (Shanghai) Pilot Free Trade Zone Shanghai CHINA 200131

For Customer Service, please email service@kostch.com

For the most up to date warranty and service policy, please refer to our website

www.kostch.com/warranty-services/

For in-warranty service requests, please visit our website at

www.kostch.com/process-warranty/

Please Note: You must provide proof of purchase and installation date for any in-warranty service requests

KOSTCH



Warranty Service Information

Residential Use

KOSTCH appliances are intended for normal residential household use only.

Commercial or Non-Residential Use

Use of the product in any commercial, business, rental, institutional, or other non-residential setting shall be considered commercial use.

For products used under commercial or non-residential conditions, the warranty is limited to: **Six (6) months parts-only** coverage from the date of original purchase.

Labor, service, installation, and other associated costs **are not covered** under commercial or non-residential use.

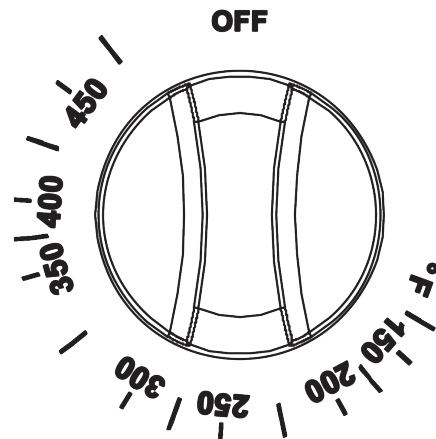
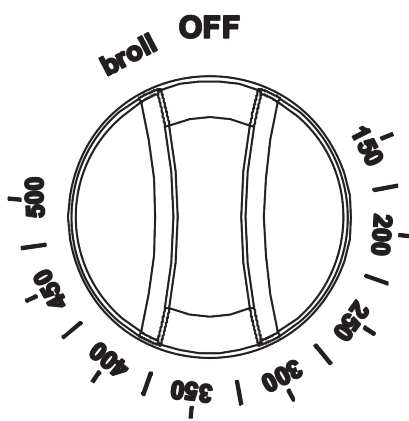
Warranty Service Contact

For warranty service or inquiries, please contact:
service@kostch.com

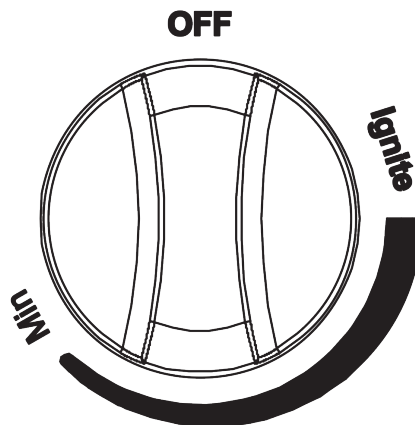
Appendix 1

Oven Knob Installation

1. Check the design



- ① Big Oven Thermostat Knob ② Griddle/Small Oven Thermostat Knob



- ③ Surface Valve Knob

Appendix 1

Oven Knob Installation

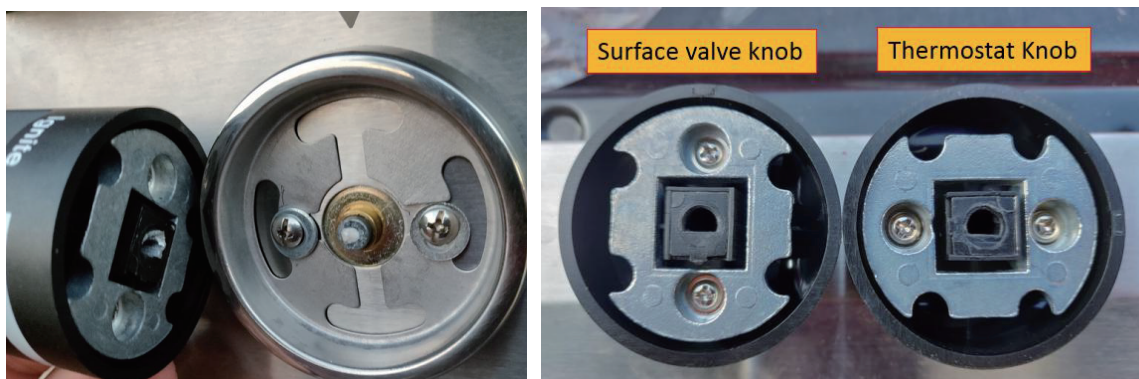
1. Check the sheet for the quantity of each knobs

Model #	Big Oven Thermostat Knob	Griddle/Small Oven Thermostat Knob	Surface Valve Knob
KOS-30RG03M	1	0	5
KOS-24RG03K	1	0	4
Model #	Big Oven Thermostat Knob	Griddle/Small Oven Thermostat Knob	Surface Valve Knob
KOS-36RG03M	1	0	6
KOS-48RG03M	1	2	6

*For any parts damage or missing, please send email to service@kostch.com

2. Find the right knob for each shaft on the range. Push the knob in to fully attach the shaft and make sure there's no friction between knobs and bezels.

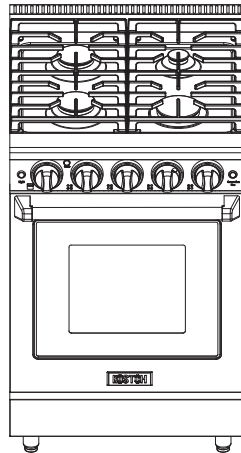
****Incorrect Knob Installation will cause the damage of the oven thermostat / burner valve****



(Incorrect knob caused broken thermostat shaft)

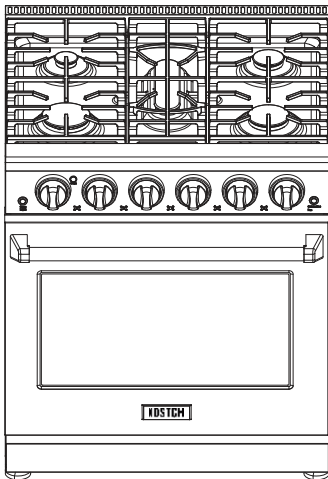
Appendix 1

Oven Knob Installation



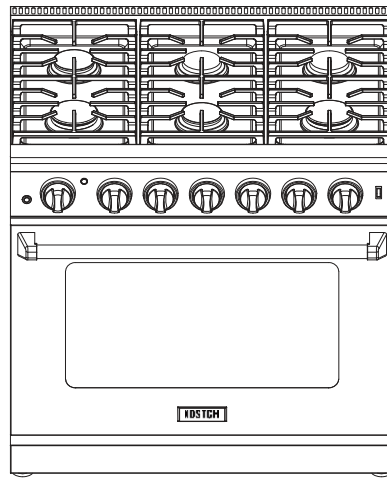
KOS-24RG03M

① ② ③ ④ ⑤



KOS-30RG03M

① ② ③ ④ ⑤ ⑥



KOS-36RG03M

① ② ③ ④ ⑤ ⑥ ⑦

KOS-30RG03M Knobs (From Left to Right):

①: Big Oven Thermostat Knob

②③④⑤⑥: Surface Valve Knob

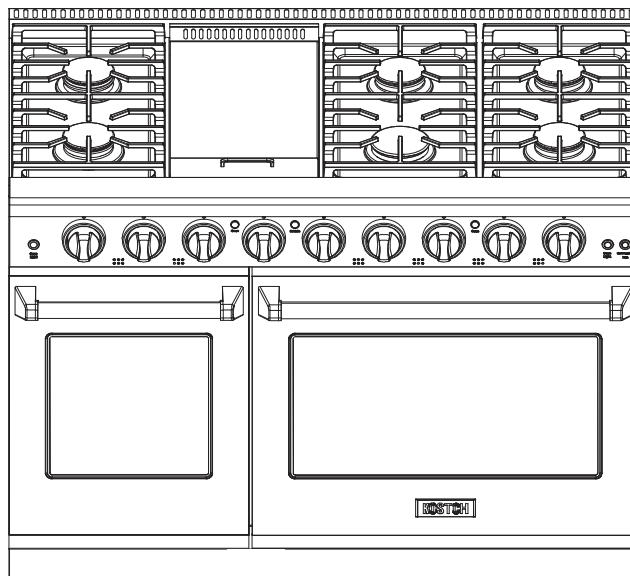
KOS-36RG03M Knobs (From Left to Right):

①: Big Oven Thermostat Knob

②③④⑤⑥⑦: Surface Valve Knob

Appendix 1

Oven Knob Installation



KOS-48RG03M

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

KOS-48RG03M (From Left to Right):

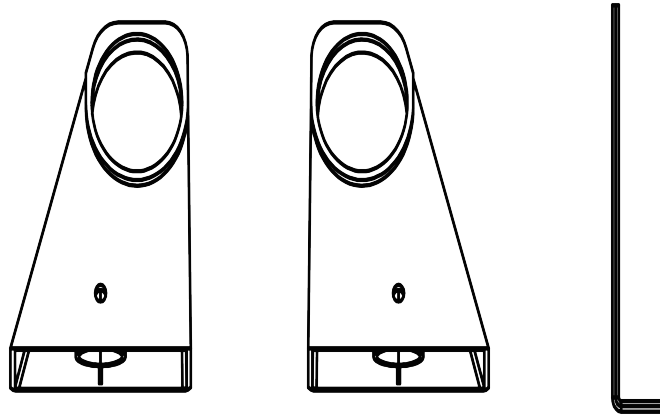
- ①②: Surface Valve Knob
- ③④: Griddle/Small Oven Thermostat Knob,
- ⑤⑥: Surface Valve Knob
- ⑦: Big Oven Thermostat Knob
- ⑧⑨: Surface Valve Knob

Your range might have a KD handle that needs to be installed. Please Follow up the following procedures for the oven door handle installation.

Appendix 2

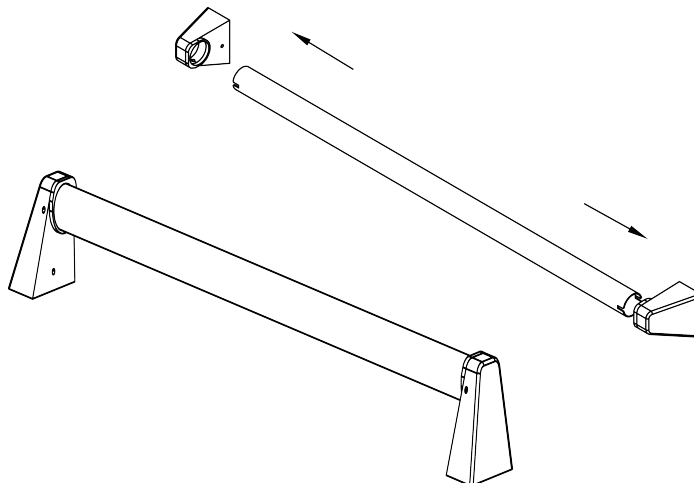
Oven Handle Installation

3.1 Check your Installation Kits for Door Handles



2 * Handle Holders, 1 * Installation Wrench,
1 * Handle (For 18", 30" or 36" Oven)

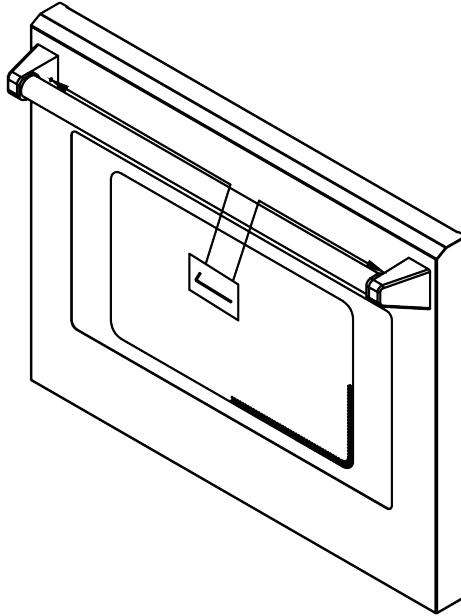
3.2 Connect door handle holders to each side of the handle



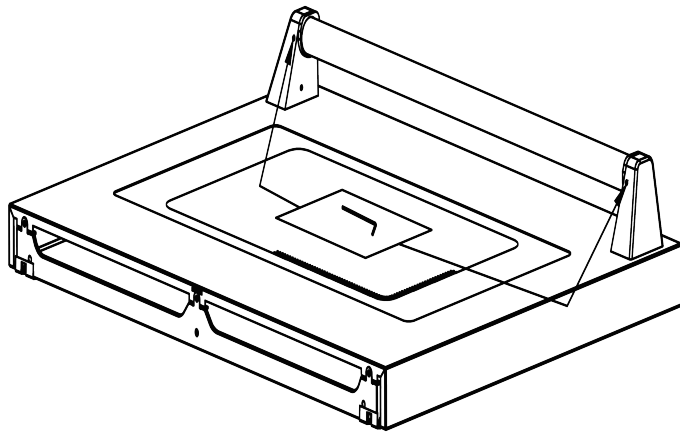
3.3 Lay the door handle against to the oven door and fit it on the connection part, and use the wrench to get the door handle holder tight;

Appendix 2

Oven Handle Installation



3.4 Use the wrench to tighten the door handle holders.



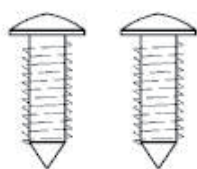
3.5 Check if the oven door handle is level and stable.

Appendix 3

Rubber Pad Installation on Back Panel

In order to meet the requirement for the clearance for the back of your **KOSTCH** Range, please install 2 pcs Rubber Pad provided in the manual package Please find the accessories and follow the below steps:

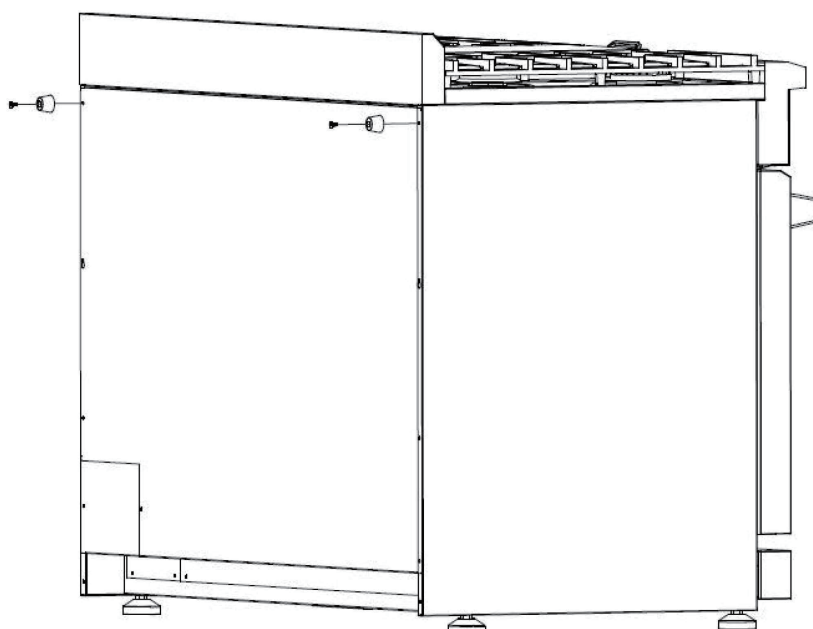
1. check the installation kit included in the manual package;



2* screws



2* rubber pad



2. Install 2 pcs rubber pad shown above.

Appendix 4

Instructions for Converting Range to Operate on Liquefied Petroleum Gas

INSTALLATION AND SERVICES MUST BE PERFORMED BY A QUALIFIED INSTALLER
 IMPORTANT: SAVE INSTRUCTION MANUAL FOR THE LOCAL INSPECTOR'S USE.
 READ AND SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE

⚠ WARNING This conversion kit must be installed by a qualified service technician in accordance with the manufacturer's instructions and all applicable codes and requirements of the authority having jurisdiction. Failure to follow instructions may result in fire, explosion or production of carbon monoxide causing property damage, personal injury or loss of life. The qualified service agency is responsible for the proper installation of this kit. The installation is not proper and complete until the operation of the converted appliance is checked as specified in the manufacturer's instructions supplied with this kit.

⚠ WARNING Before proceeding with the conversion, shut off the gas supply before disconnecting electrical power to the range. Be sure power supplies are off before installing the conversion kit. Failure to do so could cause serious bodily injury.

Determine the combination of top burners that are featured on your range. Identify the parts you need from this kit to complete the L.P. conversion. When burners are converted from natural to L.P. the BTU ratings are as follows: Note: For operation at elevations above 2000ft., appliance rating shall be reduced at the rate of 4% for each 1000 ft. above sea level.

	Top Burner						Simmer Burner	Griddle Burner	Bake Burner			Broil Burner		BypassJet
BTU	18000	12000	9000	8000	6000	4000	NA	15000	22000	18500	14000	10000	NA	NA
Orifice Size (MM)	1.28	1.03	0.91	0.84	0.75	0.62	NA	1.16	1.33	1.24	1.12	0.9	NA	NA
48"	1	5	NA	NA	NA	NA	NA	1	1	NA	1	1	NA	NA
36"	2	2	2	NA	NA	NA	NA	NA	NA	1	NA	1	NA	NA
30"	1	NA	1	1	1	1	NA	NA	NA	1	NA	1	NA	NA

First line:

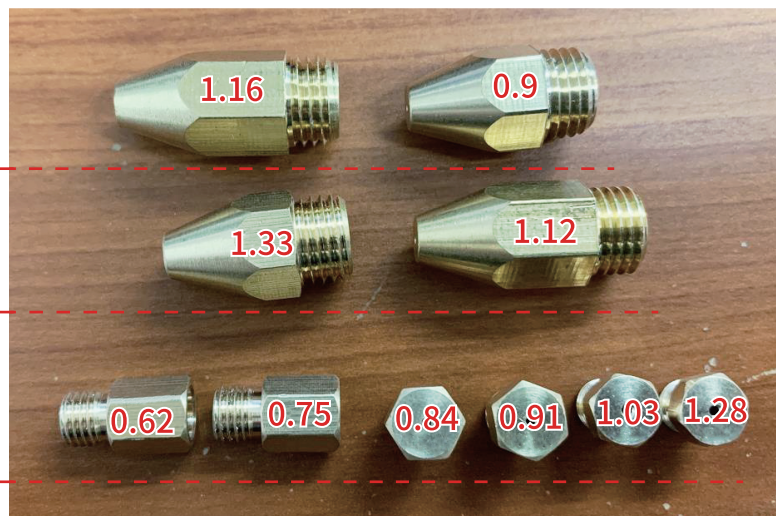
(Left to right) 48" Griddle Orifice, 48" Large Oven & 36"/30" Oven Broil Burner Orifice

Second line:

(Left to right) 48" Large Oven Bake Burner Orifice, 48" Small Oven Bake Burner Orifice

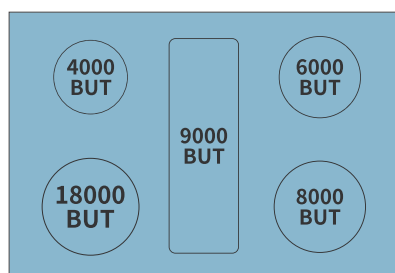
Third line:

(Left to right) 4000BTU, 6000BTU, 8000BTU, 9000BTU, 12000BTU, 18000BTU Top Burner Orifice



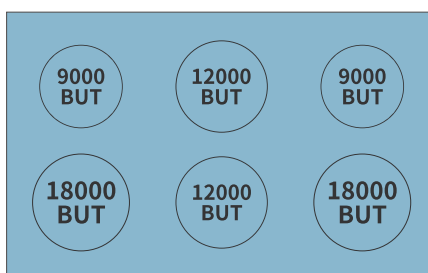
Appendix 4

Instructions for Converting Range to Operate on Liquefied Petroleum Gas



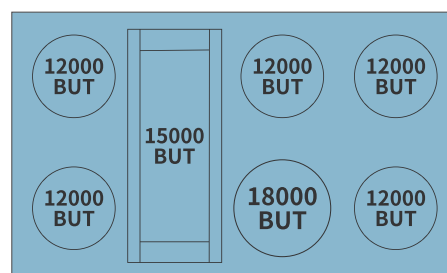
KOS-30RG03M

Oven: Bake Burner: 18500 BTU
Broil Burner: 10000 BTU



KOS-36RG03M

Oven: Bake Burner: 18500 BTU
Broil Burner: 10000 BTU



KOS-48RG03M

Griddle Burner: 15000 BTU
Large Oven: Bake Burner: 22000 BTU
Broil Burner: 10000 BTU
Small Oven: Bake Burner: 14000 BTU

IMPORTANT: After replacing the natural gas to LP orifices, be sure to keep the original factory installed natural gas orifices for future range conversion back to natural gas.

Tools for LP Conversion

7mm Tool – Top Burner Orifice Replacement

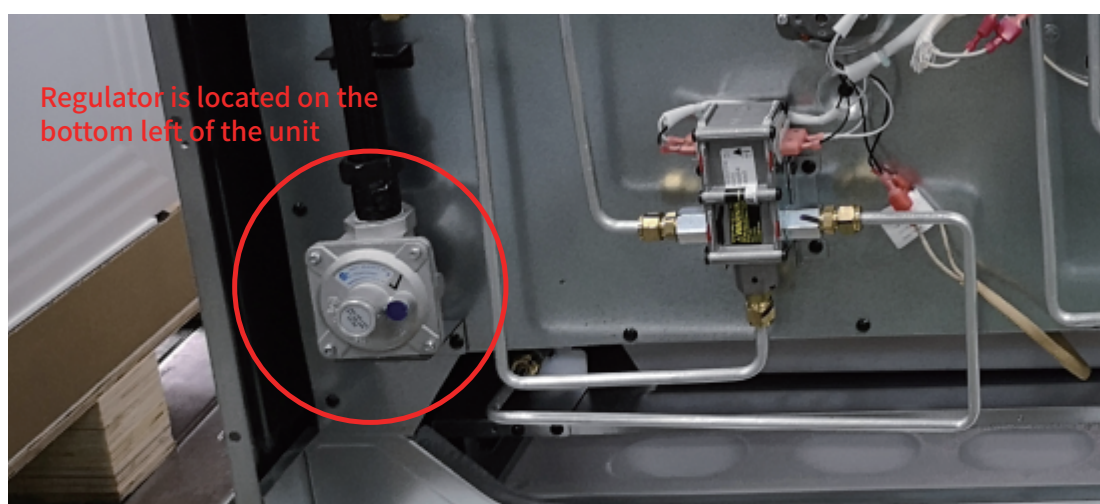
Flat Screw Driver ϕ 2.0*130 (Not Available with the LP Conversion Kit Package) – Bypass Adjustment

Adjustable Wrench *2 (Not Available with the LP Conversion Kit Package) – Orifice Adjustment

LP Conversion

1. Convert the Pressure Regulator

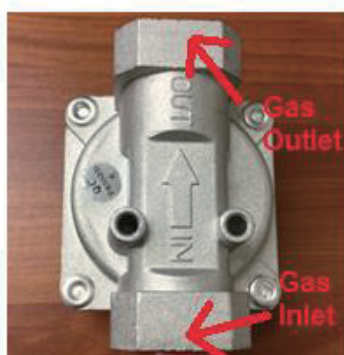
You could find your regulator on the back left of the range's back panel.



****IMPORTANT**** Pay attention that the NG and LP are in different direction. All the gas ranges are initially designed with NG position, please have it changed in to LP position.

Appendix 4

Instructions for Converting Range to Operate on Liquefied Petroleum Gas



LP Position: Metal Ring is away from the Cap



NG Position: Metal Ring is next to the Cap

Important:

The regulator plunger inside the regulator cap is reversible. It can be unscrewed and flipped over to convert the pressure regulator between Natural Gas (NG) and LP gas settings. Ensure the plunger is reinstalled in the correct orientation for the gas type being used.

2.Convert Top Burner for LP/ Propane Gas

Save the natural gas orifices removed from the appliance for possible future conversions to natural gas. **You should rely on the following process when converting unit back to Nature gas.** Take extra care when handling orifice parts, making sure the orifice is not damaged, dropped, or contaminated.

- Remove top grates, burner caps and inner burner rings.
- Lift off outer burner heads and burner bases.
- Remove the factory installed natural gas orifices from the center of the orifice holders using a 7mm nut driver

Remember to keep the original natural gas orifices for future conversions back to natural gas.

“IMPORTANT” to identify their markings.

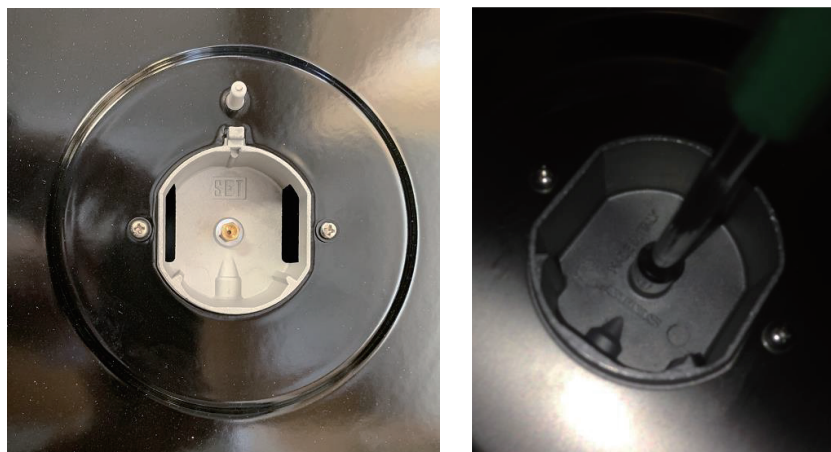
- Replace the 18000BTU burner orifice in each with orifice size **1.28 mm**.
- Replace the 12000BTU burner orifice in each with orifice size **1.03 mm**.
- Replace the 9000BTU burner orifice in each with orifice size **0.91 mm**.
- Replace the 8000 BTU burner orifice in each with orifice size **0.84 mm**.
- Replace the 6000 BTU burner orifice in each with orifice size **0.75 mm**.
- Replace the 4000 BTU burner orifice in each with orifice size **0.62 mm**.

Please remember not to over tighten the orifice and keep the orifice clean.

Put the burner flame ring back to the main burner bases. Put back the inner burner rings, burner caps and grates.

Appendix 4

Instructions for Converting Range to Operate on Liquefied Petroleum Gas



3. Convert Oven Bake Burner Orifice for LP/Propane Gas

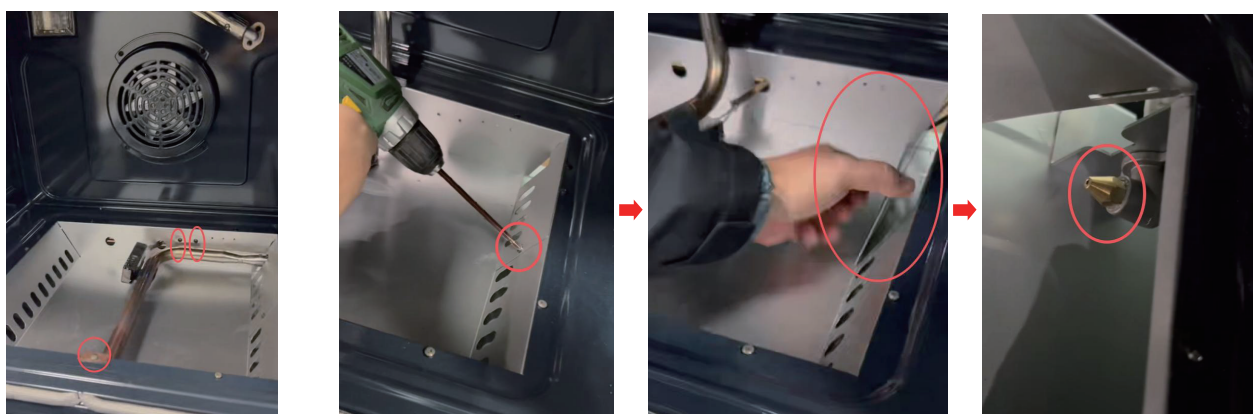
3-1. For 30", 36", and 48" Large Ovens

Orifice Size Specification:

For 30" and 36" ovens, install the **1.24 mm** orifice.

For the 48" large oven, install the **1.33 mm** orifice.

- Remove the bottom panel cover.
- Remove the screws securing the bottom burner tube, then carefully remove the burner tube.
- Unscrew the screw located on the bottom right side, then remove the side panel as shown in the diagram.
- Remove the natural gas (NG) orifice and replace it with the LPG orifice of the correct size.
- Reinstall the bottom burner tube and securely tighten the screws.

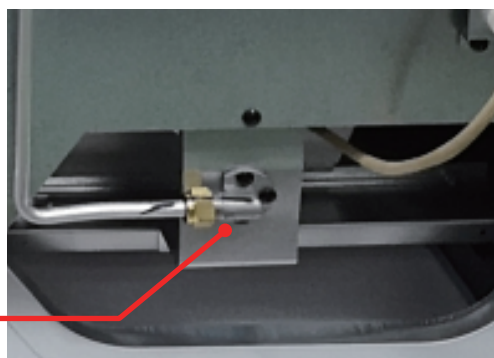
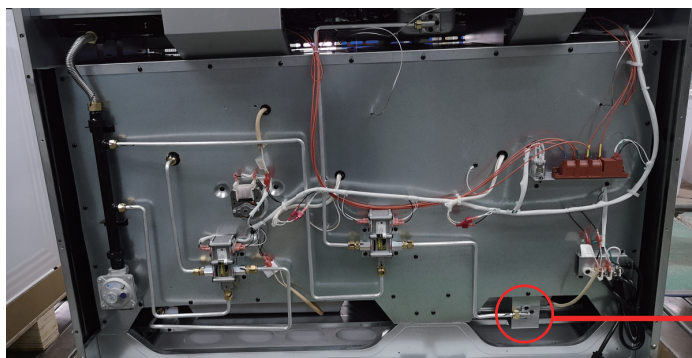


Appendix 4

Instructions for Converting Range to Operate on Liquefied Petroleum Gas

3-2. For the 48" Small Oven

The bake orifice is located at the back of the oven, as shown in the diagram. Remove the screw, replace the orifice with the **1.12 mm** orifice, then reinstall and secure it properly.



4. Covert Broil Burner Orifice - For 30, 36, 48inch large oven

The broil orifice is replaced from the top of the oven. It is not necessary to remove the rear panel.

- Remove the screw shown in the diagram. Gently shift the top burner tube aside to access the orifice. Do not fully remove the burner tube, as it is still connected to the igniter wire. Support the burner to prevent strain on the wire.
- Remove the natural gas (NG) orifice and replace it with the **0.9 mm** LP orifice.
- Ensure the broil burner tube is returned to its original position. The orifice must be properly aligned with the burner venturi opening; incorrect alignment may cause air turbulence and affect burner performance.
- Reposition the top burner tube and securely fasten it with the screw.

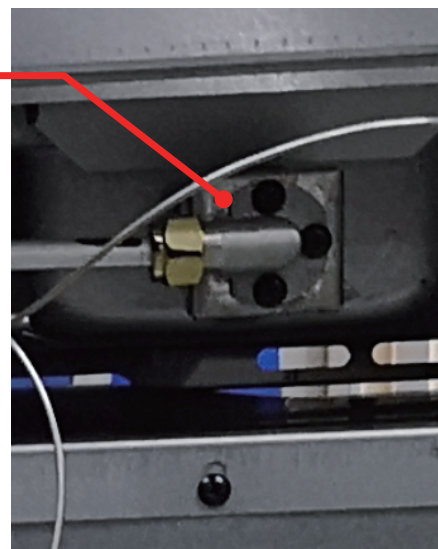
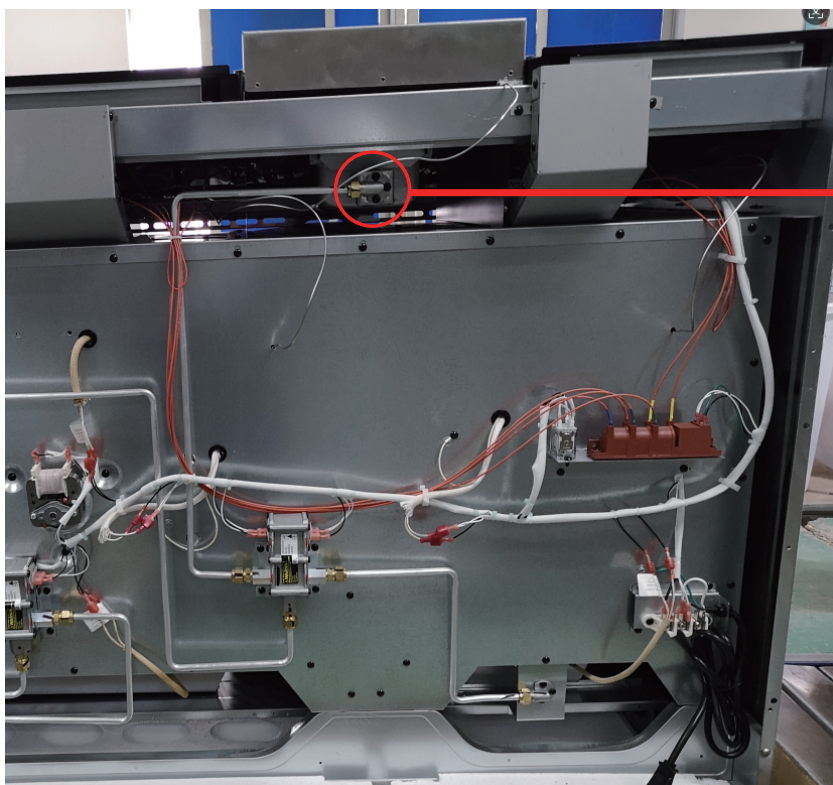


Appendix 4

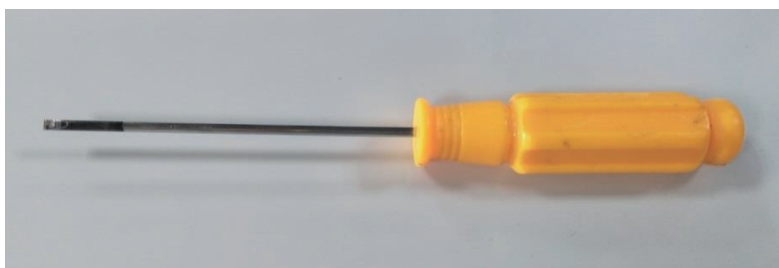
Instructions for Converting Range to Operate on Liquefied Petroleum Gas

5. Convert the Griddle Orifice (Only for 48 inch gas range)

- Remove the backsplash and rear panel.
- Locate the griddle orifice at the upper center area of the rear panel layout.
- Using a Phillips-head screwdriver, remove the three screws securing the orifice holder. Then use a 10 mm wrench to remove the natural gas (NG) orifice from the griddle orifice holder. Replace it with the **1.16 mm** LP griddle orifice.
- Reinstall the rear panel and backsplash.



6. Convert Burner Valves for LP/Propane Gas

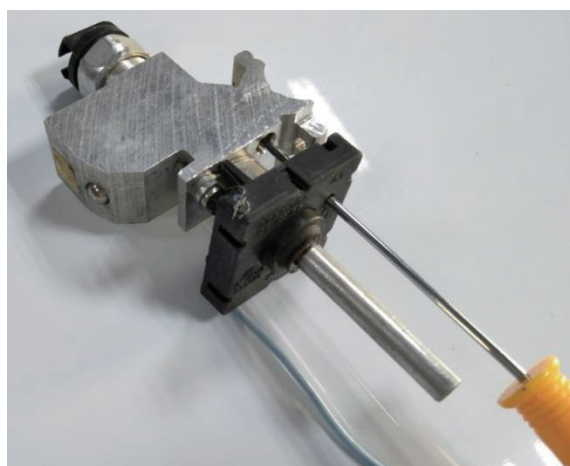
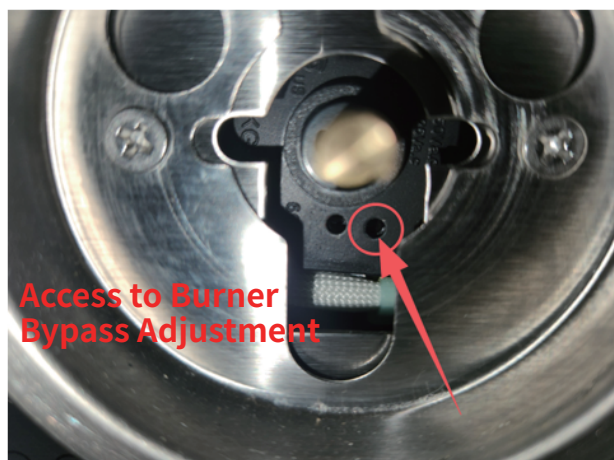


One 5/64" flat screw driver is needed for the Bypass Adjustment on Buner Valve (**Not included in LPK Package**),

- Please take off the top burner knobs to get access to the burner valve part. There's a hole located at bottom right of the burner valve, providing access to the adjustment of burner valve bypass orifice. Take out the bezel if needed.

Appendix 4

Instructions for Converting Range to Operate on Liquefied Petroleum Gas



The hole is part of the micro-switch (the black part) sticking to the burner valve. Use the screw driver to go across the micro-switch and reach the bypass orifice on the burner valve. Bypass orifice could help to control the flame.

b. Put the knob back, adjust the flame by rotating the knob. The original location of bypass is for NG. If converted to LP, the bypass needs to be screwed in (in **clockwise direction**) to **tightest position**.

Originally, the Bypass is located at NG Position and it's not screwed to the bottom (tightest)

For LP conversion of bypass, not bypass orifice needs to be changed.

Screw the Bypass Orifice to bottom (clockwise).

c. Save the main bypass jets, in the plastic bag labeled main jets and simmer bypass jets in the bag for simmer jets.

When you are using your top burners, if the flame needs to be adjusted accordingly to fit your need, please adjust the **bypass orifices** on the burner valve.

Put back the knob on and adjust the flame by rotating the bypass via a small flat screw driver. Check the flame's condition to get the best performance.

7. Reconnect Gas and Electrical Supply to Range.

Leak testing of the appliance shall be conducted according to the installation instructions provided with the range.

Checking for Manifold Gas Pressure

If it is necessary to check the manifold gas pressure, remove the burner cap, inner ring, outer burner head and burner base of the right front top burner and connect a manometer (water gauge) or another pressure test device to the burner orifice. Use a rubber hose with inside diameter of approximately $\frac{1}{4}$ " and hold the end of the tube tight over the orifice. Turn the gas valve on. For a more accurate pressure check, have at least two other top burners burning. Be sure that the gas supply (inlet) pressure is at least one inch above the specified manifold pressure. The gas supply pressure should never be over 14" water column. When properly adjusted the manifold water column pressure is 10" for LP/Propane gas or 5" for Natural Gas.

Appendix 4

Instructions for Converting Range to Operate on Liquefied Petroleum Gas

8. Installation of New LP / Propane Rating / Serial Plate

Record the model and serial number on the LP / Propane Rating serial plate provided in this kit. The information can be obtained from the existing Rating / Serial plate. Place the new plate as close as possible to the existing Rating / Serial plate on the range.



Do not use a flame to check for gas leaks

- a. Disconnect the range and its individual shut-off valve from the gas supply piping system during any pressure of that system at test pressures greater than 14" of water column pressure (approximately ½" psig)
- b. The appliance must be isolated from the gas supply piping system by closing its individual manual shut-off valve during any pressure testing of the supply system at test pressure equal to or less than 14" water column pressure (approximately ½" psig)