

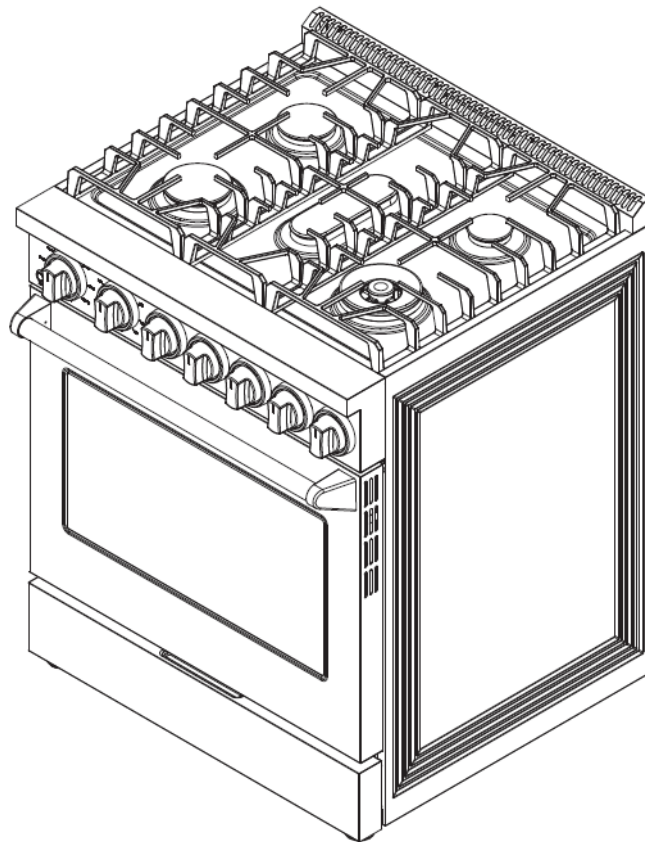
Kenmore PRO^{®/MD}



GAS RANGE

30" width / 5 cu. ft. /

Front Control Gas Range / with Air Fry and Convection



Customer Assistance
1-800-265-8456
www.koolatron.com

KKProGRFC30X5-AFC
Installation Instructions

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RANGE SAFETY

Read All Instructions Before Using the Appliance

Your safety and the safety of others is very important.

We have provided many important safety messages in this manual and on your appliance. Always read and obey all safety messages.



This is the safety alert symbol.

This symbol alerts you to potential hazards that can kill or hurt you and others.

All safety messages will follow the safety alert symbol and either the word "WARNING" or "CAUTION." These words mean:



You can be killed or seriously injured if you don't follow instructions.



A potentially hazardous situation which, if not avoided, could result in minor or moderate injury.

All safety messages will tell you what the potential hazard is, tell you how to reduce the chance of injury, and tell you what can happen if the instructions are not followed.

In the State of Massachusetts, the following installation instructions apply:

- Installations and repairs must be performed by a qualified or licensed contractor, plumber, or gasfitter qualified or licensed by the State of Massachusetts.
- If using a ball valve, it shall be a T-handle type.
- A flexible gas connector, when used, must not exceed 3 feet (91.5 cm).

California Proposition 65 Warning



Cancer and Reproductive Harm - www.P65Warnings.ca.gov.



Fire and Explosion Hazard

If the information in this manual is not followed exactly, a fire or explosion may result, causing property damage, personal injury or death.

- Installation and service must be performed by a qualified installer, service agency or the gas supplier.
- **WHAT TO DO IF YOU SMELL GAS:**
 - Do not try to light any appliance.
 - Do not touch any electrical switch.
 - Do not use any phone in your building.
 - Clear the room, building, or area of all occupants.
 - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
 - If you cannot reach your gas supplier, call the fire department.



Never operate the top surface cooking section of this appliance unattended.

- Failure to follow this warning statement could result in fire, explosion or burn hazard that could cause property damage, personal injury, or death.
- If a fire should occur, keep away from the appliance and immediately call your fire department.
- DO NOT ATTEMPT TO EXTINGUISH AN OIL/GREASE FIRE WITH WATER.

WARNING

- Gas leaks cannot always be detected by smell. Gas suppliers recommend that you use a gas detector approved by UL or CSA. For more information, contact your gas supplier.
- Do not install a ventilation system that blows air downward toward this cooking appliance. This type of ventilation system may cause ignition and combustion problems with this cooking appliance resulting in personal injury or unintended operation.
- This appliance is intended for normal commercial use. It is not approved for outdoor installation, or any other application not specifically allowed by this manual.
- This appliance requires connection to a 3-prong 120VAC single-phase (split-phase), 60Hz grounded electrical source protected by a 20-Amp circuit breaker or slow blow fuse. When installed, the appliance must be electrically grounded in accordance with local codes or, in the absence of local codes, with the National Electrical Code, NFPA 70 or the Canadian Electric Code, CSA C22.1-02.
- Proper installation is the responsibility of the installer. Any adjustment and service should be performed only by qualified oven installers or service technicians. The manufacturer is not responsible for any injury or damage that may result from incorrect or defective installation by unauthorized personnel.
- Product failure due to improper installation is not covered under warranty.

ANTI-TIP DEVICE

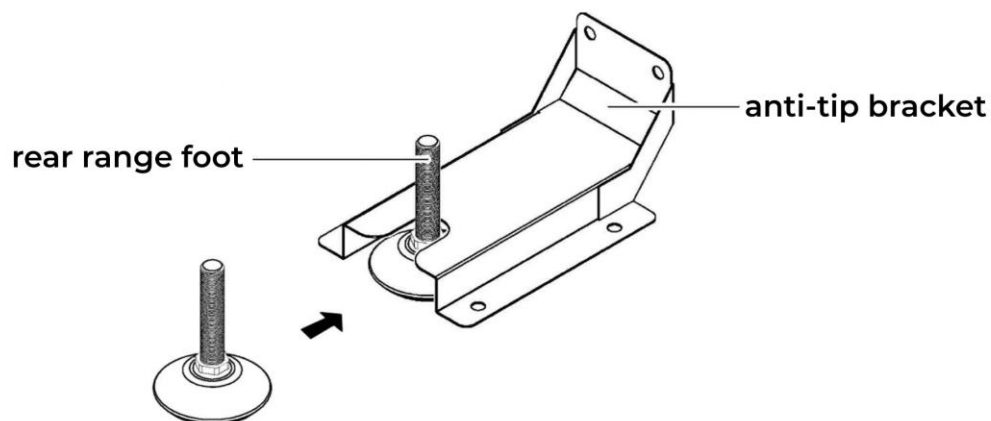


Tip Over Hazard

- A child or adult can tip the range and be killed.
- Install anti-tip bracket to floor or wall per installation instructions.
- Slide range back so rear range foot is engaged in the slot of the anti-tip bracket.
- Re-engage the anti-tip bracket if range is moved.
- Do not operate the range without the anti-tip bracket installed and engaged.
- Failure to follow these instructions can result in death or serious burns to children and adults.

Making sure the anti-tip bracket is installed:

- Slide range forward.
- Look for the anti-tip bracket securely attached to the floor or wall.
- Slide range back and make sure rear range foot is under anti-tip bracket



INSTALLATION REQUIREMENTS

TOOLS AND PARTS

Gather the required tools and parts before starting installation. Read and follow the instructions provided with any tools listed here.

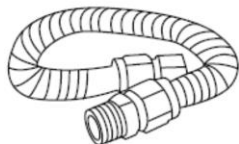
TOOLS NEEDED

- Tape measure
- Phillips screwdriver
- Level
- Drill and drill bit (for anti-tip bracket installation)
- Adjustable wrench or pliers
- Pipe-joint compound resistant to LP gas
- Noncorrosive leak-detection solution
- Marker or pencil
- Gloves and safety glasses

For Propane/Natural Gas Conversions

- Combination wrench
- Nut driver

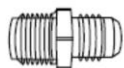
PARTS NEEDED



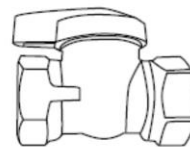
New flexible gas supply line
(3/4" or 1/2" NPT x 1/2" ID)



New flare union adapter
(3/4" or 1/2" NPT x 1/2" ID)

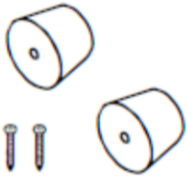


New flare union adapter
(1/2" NPT x 1/2" ID)

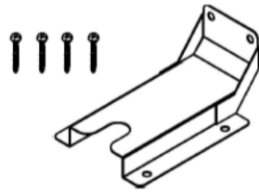


Gas line shut-off valve

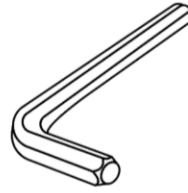
PARTS SUPPLIED



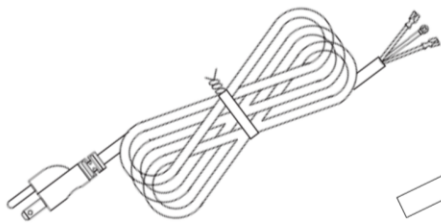
Rear rubber pads (2)



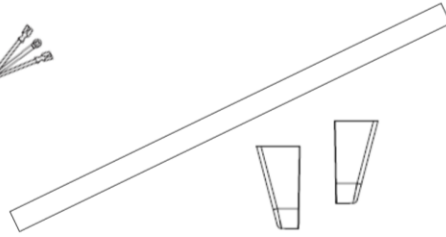
Anti-tip bracket with
ST5 x 40 mm mounting screws



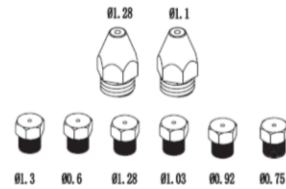
Hex key



Power cord

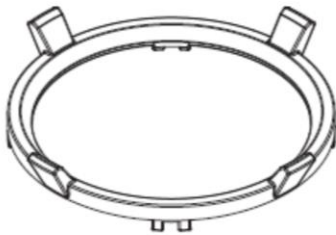


Oven door handle
with end caps (2)

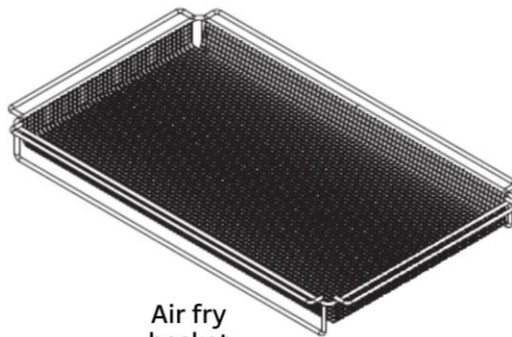


LP conversion kit

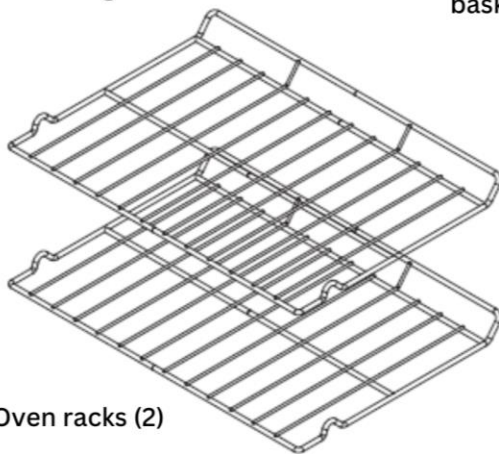
ACCESSORIES SUPPLIED



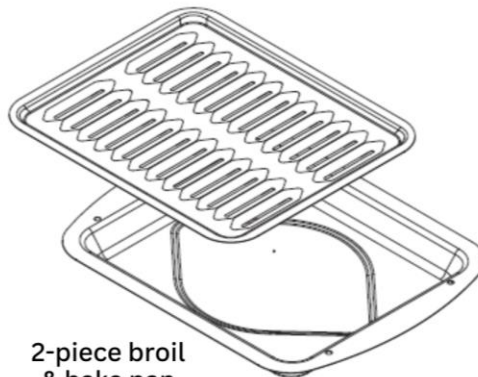
Wok ring



Air fry
basket



Oven racks (2)

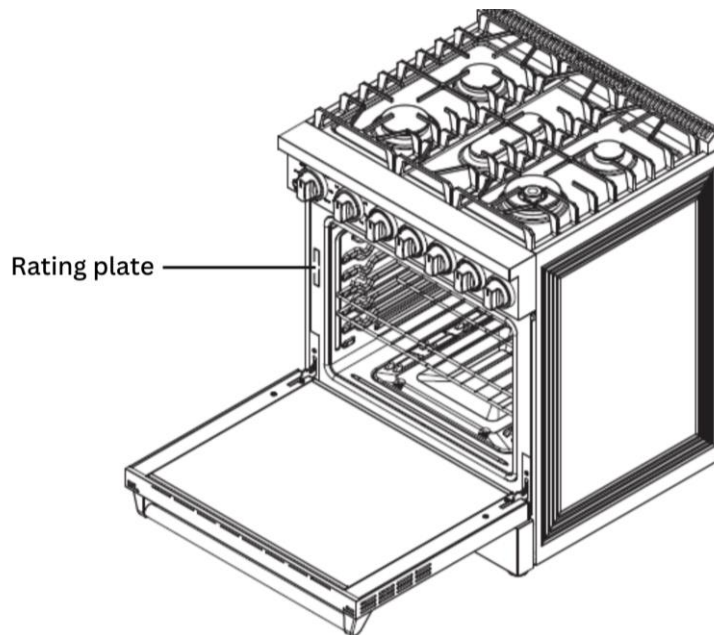


2-piece broil
& bake pan

LOCATION REQUIREMENTS

IMPORTANT: Observe all governing codes and ordinances. Do not obstruct flow of combustion and ventilation air.

- It is the installers responsibility to comply with installation clearances specified on the model/serial/rating plate. The plate is located behind the oven door on the oven frame and also on the back panel of the range.



- The range should be located for convenient use in the kitchen
- Recessed installations must provide complete enclosure of the sides and rear of the range.
- To eliminate the risk of burns or fire by reaching over heated surface units, cabinet storage space located above the surface units should be avoided. If cabinet storage is to be provided, the risk can be reduced by installing a range hood or microwave hood combination that projects horizontally a minimum of 5 in (12.7 cm) beyond the bottom of the cabinets.
- Do not install a ventilation system that blows air downward toward the range.
- Do not locate the range where it may be subject to strong drafts.
- All openings in the wall or floor where the range is to be installed must be sealed.

- Do not seal the range to the side cabinets.
- Cabinet opening dimensions that are shown must be used.
- The anti-tip bracket must be installed.
- Grounded electrical supply is required. See the “Electrical Requirements” section.
- Proper gas supply connection must be available. See the “Gas Supply Requirements” section.
- Contact a qualified floor covering installer to check that the floor covering can withstand at least 194°F (90°C).
- Use an insulated pad or ¼ in (0.64 cm) plywood under the range if installing the range over carpeting.

IMPORTANT: To avoid damage to your cabinets, check with your builder or cabinet supplier to make sure that the materials used will not discolour, delaminate, or sustain other damage. This range has been designed to comply with the maximum allowable wood cabinet temperatures of 194°F (90°C)..

Mobile Home - Additional Installation Requirements

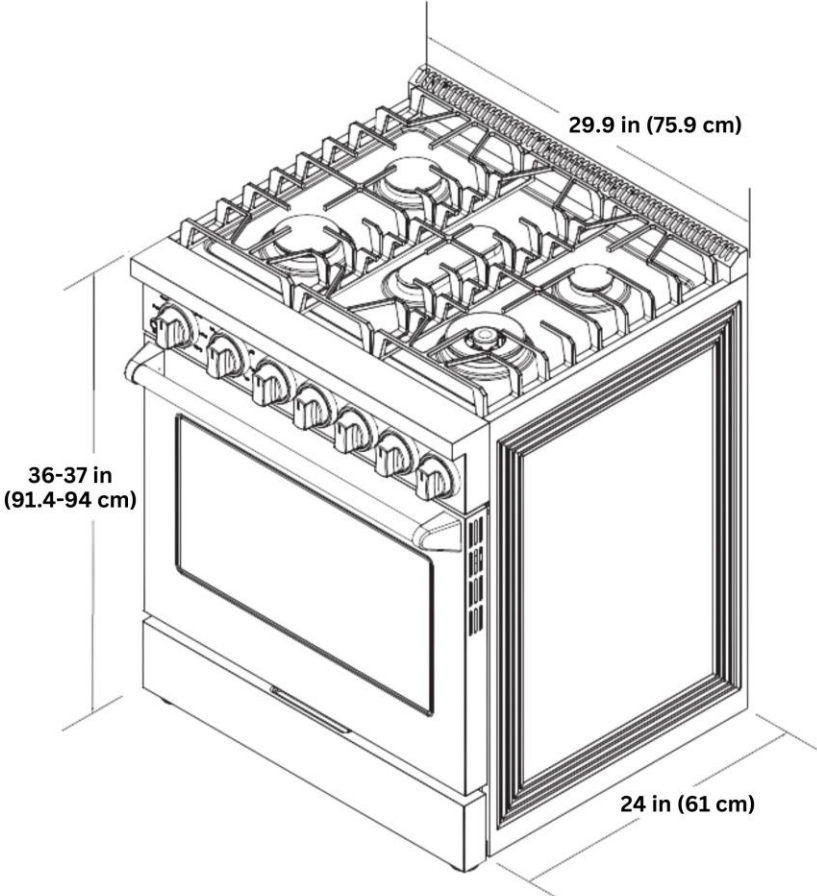
The installation of this range must conform to the Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280 (formerly the Federal Standard for Mobile Home Construction and Safety, Title 24, HUD Part 280). When this standard is not applicable, use the Standard for Manufactured Home Installations, ANSI A225.1/NFPA 501A or with local codes.

In Canada, the installation of this range must conform with the current standards CAN/CSA-A240-latest edition, or with local codes.

Mobile Home Installations Require:

- When this range is installed in a mobile home, it must be secured to the floor during transit. Any method of securing the range is adequate as long as it conforms to the standards listed above.
- Four-wire power supply cord or cable must be used in a mobile home installation. The appliance wiring will need to be revised. See "Electrical Connection" section.

PRODUCT DIMENSIONS



NOTE: Range can be raised approximately 1" (2.6 cm) by adjusting the leveling legs.

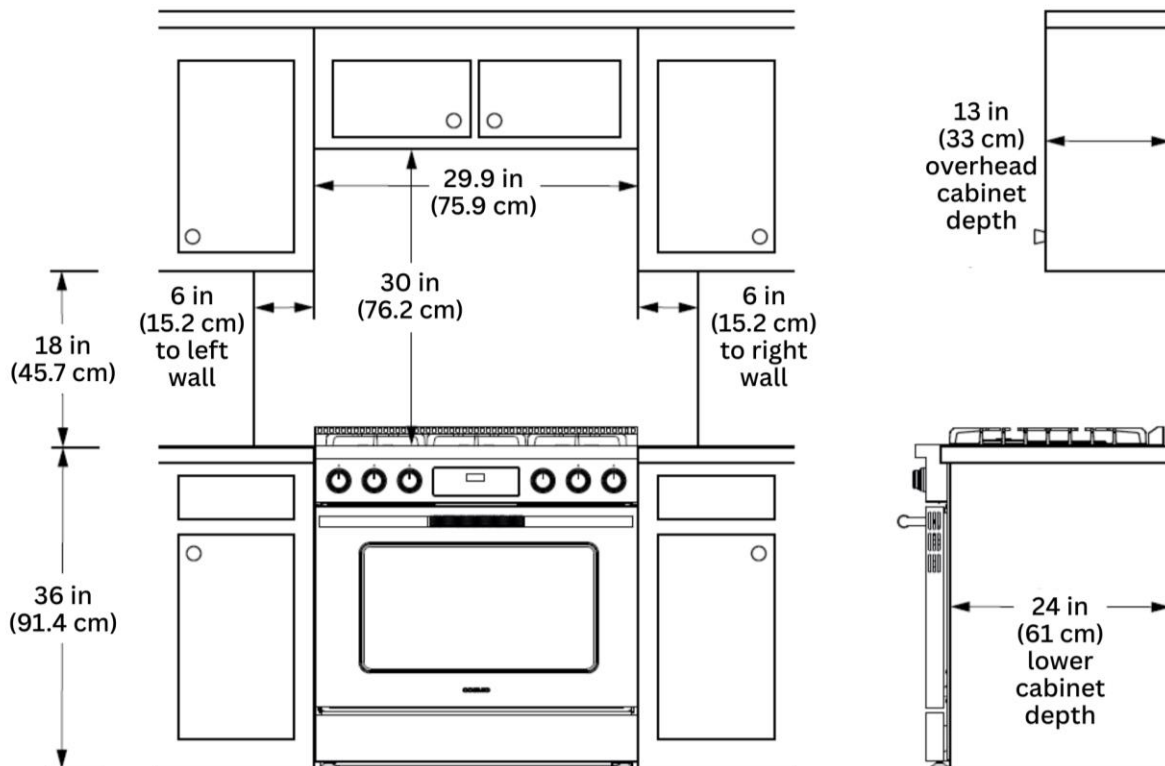
CLEARANCES

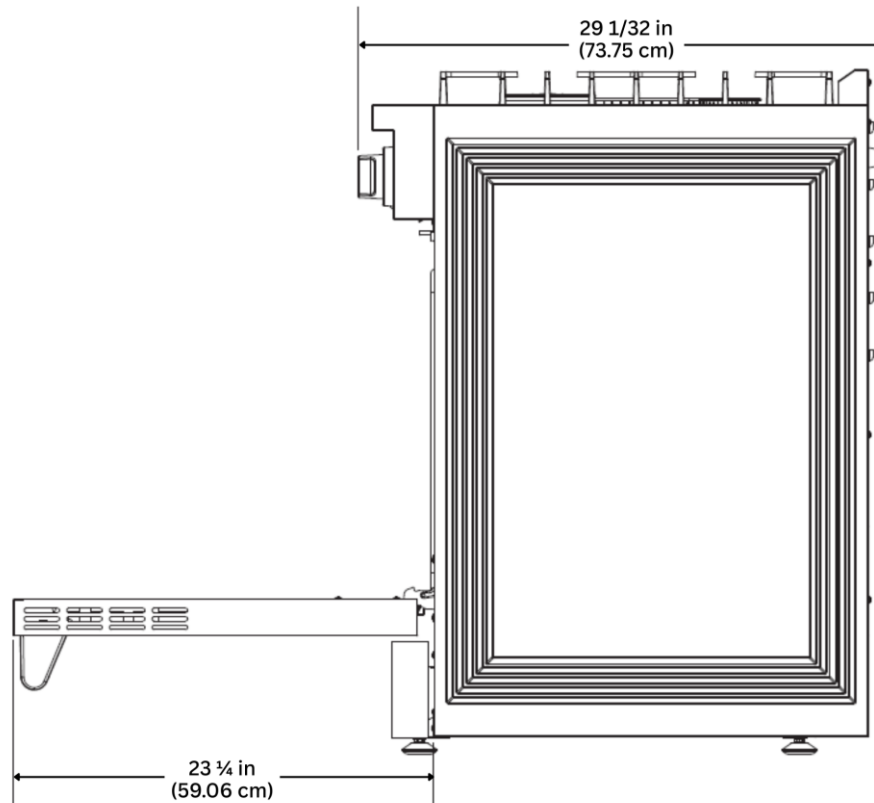
Cabinet opening dimensions shown are for 25" (64.0 cm) countertop depth, 24" (61.0 cm) base cabinet depth, and 36" (91.4 cm) countertop height.

IMPORTANT:

- Some cabinet and building materials are not designed to withstand the heat produced by the oven for baking and self-cleaning. Check with your builder or cabinet supplier to make sure that the materials used will not discolour, delaminate, or sustain other damage.
- If installing a range hood or microwave hood combination above the range, follow the range hood or microwave hood combination installation instructions for dimensional clearances above the cooktop surface.

Given dimensions are minimum clearances.



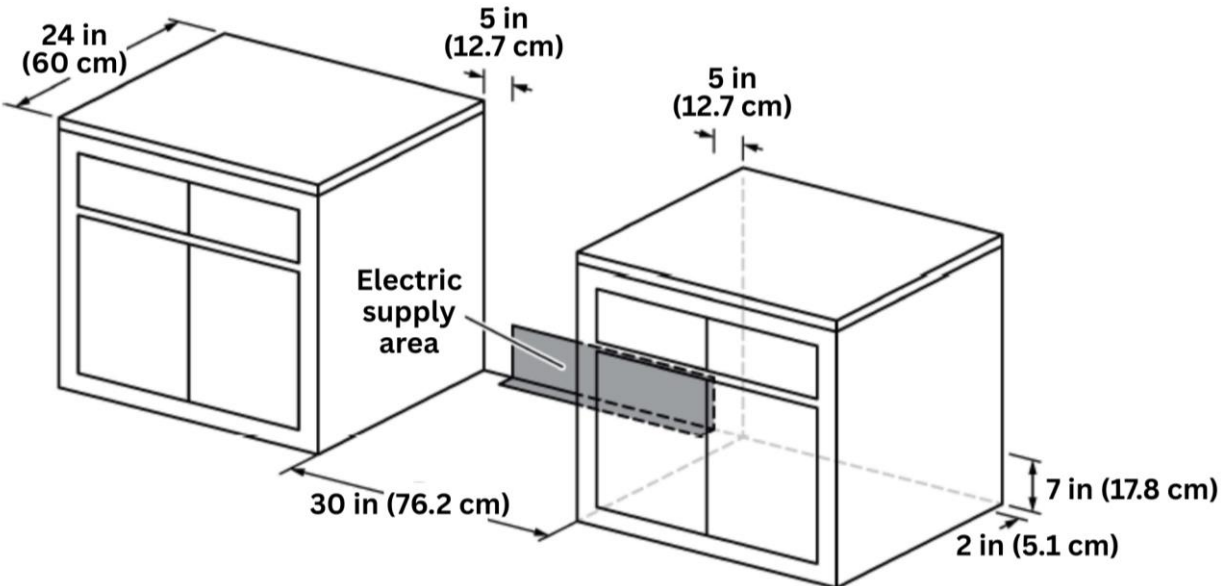


NOTE:

- 30" (76.2 cm) minimum clearance between cooking surface and bottom of an uncovered wood or metal overhead cabinet
- 24" (61.0 cm) minimum clearance to top of cooking surface when bottom of wood or metal overhead cabinet is shielded by not less than 1/4" (0.64 cm) flame retardant millboard covered with not less than No. 28 MSG sheet steel, 0.015" (0.4 mm) stainless steel, 0.024" (0.6 mm) aluminum, or 0.020" (0.5 mm) copper.
- 18" (45.7 cm) minimum clearance from upper cabinet to countertop on either side of the unit.
- When installed in a slide-in cutout, the front of the oven door may protrude beyond the base cabinet.
- Island Installations: Maintain 6" (15.2 cm) minimum clearance from cutout to back and side edges of countertop.

POWER SUPPLY LOCATION

IMPORTANT: An electrical outlet in the floor may be either recessed or surface mounted, but an electrical outlet in the wall must be recessed to make the connection.



VENTING REQUIREMENTS

IMPORTANT: This range must be exhausted outdoors unless you are using ductless venting. Observe all governing codes and ordinances. Do not obstruct flow of combustion and ventilation air.

- Do not terminate the vent system in an attic or other enclosed area.
- Use an approved vent cap for proper performance. If an alternate wall or roof cap is used, be certain the cap size is not reduced and that it has a backdraft damper.
- Vent system must terminate to the outside unless you are using a ductless vent kit.
- Rigid metal vent is recommended. For best performance, do not use a plastic or metal foil vent.
- If a joist or stud must be cut, then a supporting frame must be constructed.
- The size of the vent should be uniform.
- The vent system must have a damper.
- Seal all joints in the vent system.
- Use caulking to seal exterior wall or roof openings around the cap.
- Determine which venting method is best for your application.

MAKEUP AIR

Local building codes may require the use of makeup air systems when using ventilation systems greater than specified CFM of air movement. The specified CFM varies from locale to locale. Consult your HVAC professional for the specific requirements in your area.

ELECTRICAL REQUIREMENTS



Electrical Shock Hazard

- Do not use an extension cord with this appliance.
- Remove house fuse or open circuit breaker before beginning installation.

Electrical Grounding Instructions:

- The power cord of this appliance is equipped with a 3-prong (grounding) plug which plugs into a standard 3-prong grounding wall receptacle to minimize the possibility of electric shock hazard from this appliance.
- DO NOT, UNDER ANY CIRCUMSTANCES, CUT OR REMOVE THE (THIRD) GROUNDING PRONG FROM THE PLUG.

USA ONLY

Be sure that the electrical connection and wire size are adequate and in conformance with the National Electrical Code, ANSI/NFPA No. 70 - latest edition and all local codes and ordinances. A copy of these code standards can be obtained from:

National Fire Protection Association
1 Batterymarch Park
Quincy, MA 02169

CANADA ONLY

Be sure that the electrical connection and wire size are adequate and in conformance with the CSA Standard C22.1, Canadian Electrical Code, Part 1 - latest edition and all local codes and ordinances. A copy of these code standards can be obtained from:

Canadian Standards Association
178 Rexdale Blvd.
Toronto, ON M9W 1R3 CANADA

ELECTRICAL CONNECTION

If codes permit and a separate ground wire is used, it is recommended that a qualified electrical installer determine that the ground path and wire gauge are in accordance with local codes.



Electrical Shock Hazard

- Improper connection of the equipment-grounding conductor can result in a risk of electric shock.
- Check with a qualified electrician or service technician if you are in doubt as to whether the appliance is properly grounded.
- Do not modify the power supply cord plug. If it will not fit the outlet, have a proper outlet installed by a qualified electrician.

IMPORTANT:

- The receptacle of this range is to be connected to a properly grounded dedicated circuit providing 120 VAC/60 Hz power and protected by a 20-Amp circuit breaker or slow blow fuse. It is recommended that a separate circuit serving only this range be provided.
- Where a standard 2-prong wall receptacle is encountered, contact a qualified electrician to have it replaced with a properly grounded 3-prong wall receptacle.
- This range is equipped with an electronic ignition system that will not operate properly if plugged into an outlet that is not correctly polarized. Reverse polarity will result in continuous sparking of the electrodes, even after flame ignition.
- Electronic ignition systems operate within wide voltage limits, but proper grounding and polarity are necessary. Check that the outlet provides 120-volt power and is correctly grounded.
- Do not use an extension cord or an adapter plug.
- Check local codes and consult gas supplier. Check existing electrical supply and gas supply. It is recommended that all electrical connections be made by a licensed, qualified electrical installer.

- Range must be connected to the proper electrical voltage and frequency as specified on the model/serial/rating plate. The plate is located behind the oven door on the oven frame and also on the back panel of the range.
- It is the personal responsibility of the range owner to provide the correct electrical service for this range.
- This gas range is not required or recommended to be plugged into a GFCI (Ground-Fault Circuit Interrupter) outlet. It is recommended that you not plug an electric spark ignition gas range or any other major appliance into a GFCI wall outlet as it may cause the GFCI to trip during normal cycling.
- Performance of this range will not be affected if operated on a GFCI-protected circuit. However, occasional nuisance tripping of the GFCI breaker is possible due to the normal operating nature of electronic gas ranges.
- The wiring diagram is located on the back of the range.

GAS SUPPLY REQUIREMENTS

If codes permit and a separate ground wire is used, it is recommended that a qualified electrical installer determine that the ground path and wire gauge are in accordance with local codes.



Fire and Explosion Hazard

- Use a new CSA International approved gas supply line.
- Install a shut-off valve.
- Securely tighten all gas connections.
- If connected to LP, have a qualified person make sure gas pressure does not exceed the maximum pressure listed in this section.
- Examples of a qualified person include:
 - licensed heating personnel
 - authorized gas company personnel
 - authorized service personnel
- Failure to do so can result in death, explosion or fire.

IMPORTANT:

- Observe all governing codes and ordinances.
- This installation must conform with all local codes and ordinances. In the absence of local codes, installation must conform with American National Standard, National Fuel Gas Code ANSI Z223.1/NFPA 54 - latest edition, or in Canada, the Natural Gas and Propane Installation Code, CAN 1-1.1- MBI - latest edition.
- Leak testing of the range must be conducted according to the manufacturer's instructions. Do not use a flame to check for leaks.

TYPE OF GAS

This range is design-certified by CSA International for use with Natural gas (NG) or, after proper conversion, for use with Propane gas (LP).

Natural Gas (NG)

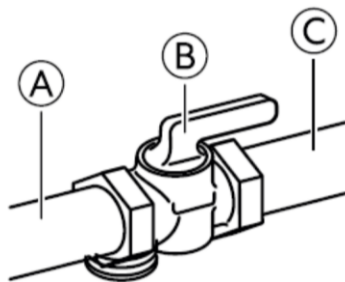
This range is factory-set for use with Natural gas. The model/serial/rating plate located on the back panel of the range has information on the types of gas that can be used. If the types of gas listed do not include the type of gas available, check with the local gas supplier.

Propane Gas (LP) Conversion

The LP conversion kit is sold separately. Conversion must be performed by a qualified service technician. The qualified agency performing this work assumes the gas conversion responsibility. No attempt shall be made to convert the appliance from the gas specified on the model/serial/rating plate for use with a different gas without consulting the serving gas supplier.

GAS SHUT-OFF VALVE

A manual gas line shut-off valve must be installed in an easily accessible location. Do not block access to the shut-off valve. The valve is for turning on or shutting off gas to the range.



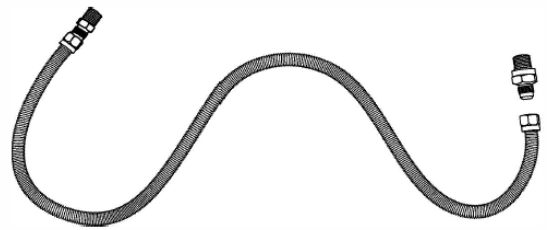
- Ⓐ Gas supply line
- Ⓑ Shut-off valve "open" position
- Ⓒ To range

GAS SUPPLY LINE

Provide a gas supply line of 3/4" (1.9 cm) rigid pipe to the range location. A smaller size pipe on longer runs may result in insufficient gas supply. Pipe-joint compounds that resist the action of LP gas must be used. With LP gas, piping or tubing size can be 1/2" (1.3 cm) minimum. Usually, LP gas suppliers determine the size and materials used in the system.

Flexible Metal Appliance Connector

- If local codes permit, a new CSA design-certified, 4 - 5 ft (122 - 152.4 cm) long, 1/2" (1.3 cm) or 3/4" (1.9 cm) I.D., flexible metal appliance connector may be used for connecting range to the gas supply line. In Canada, flexible connectors must be single wall metal connectors less than 6 feet (182.9 cm) in length.
- A 1/2" (1.3 cm) male pipe thread is needed for connection to the female pipe threads of the inlet to the appliance pressure regulator.



IMPORTANT: Do not kink or damage the flexible metal tubing when moving the range.

Rigid Pipe Connection

- Since the range must be pulled away from the installation space to provide access to the gas regulator connections, and because hard piping restricts movement of the range, the range can only be installed using a CSA International-certified flexible metal appliance connector.
- If local codes require a hard-piped connection, a combination of pipe fittings must be used to connect the range to the existing gas line and maintain an accessible working space behind the range. Consult with a qualified local technician for an optimal connection suitable for your installation.

GAS PRESSURE REGULATOR

The gas pressure regulator supplied with this range must be used. The inlet pressure to the regulator should be as follows for proper operation:

	Natural gas	LP gas
Minimum pressure	3.5"WC	10"WC
Maximum pressure	7"WC	13"WC

Contact your local gas supplier if you are not sure about the inlet pressure.

Burner Input Requirements

- Input ratings shown on the model/serial/rating plate are for elevations up to 2,000 ft (609.6 m).
- For elevations above 2,000 ft (609.6 m), ratings are reduced at a rate of 4% for each 1,000 ft (304.8 m) above sea level (not applicable for Canada).

Gas Supply Pressure Testing

Gas supply pressure for testing the regulator must be at least 1" (2.5 cm) water column pressure above the manifold pressure shown on the model/serial/rating plate.

Line pressure testing above 0.5 psi gauge (14" WCP)

The range and its individual shut-off valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of 0.5 psi (3.5 kPa).

Line pressure testing at 0.5 psi gauge (14" WCP) or lower

The range must be isolated from the gas supply piping system by closing its individual manual shut-off valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 psi (3.5 kPa).

INSTALLATION INSTRUCTIONS

IMPORTANT: This appliance shall be installed only by authorized persons and in accordance with the manufacturer's installation instructions, municipal building codes, and electrical wiring regulations.



Fire and Explosion Hazard

If the information in this manual is not followed exactly, a fire or explosion may result, causing property damage, personal injury or death.

- Installation and service must be performed by a qualified installer, service agency or the gas supplier.
- **WHAT TO DO IF YOU SMELL GAS:**
 - Do not try to light any appliance.
 - Do not touch any electrical switch.
 - Do not use any phone in your building.
 - Clear the room, building, or area of all occupants.
 - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
 - If you cannot reach your gas supplier, call the fire department.



Electrical Shock Hazard

- Remove house fuse or open circuit breaker to disconnect power before servicing. Failure to do so can result in death, fire, or electrical shock.



Excessive Weight Hazard

- Use two or more people to move and install the oven. Failure to do so can result in back or other injury.



Laceration, Foreign Object, Crush Hazard

- When installing, moving, or servicing any appliance, wear proper protective equipment, including cut resistant gloves, steel-toed shoes, and safety glasses.

REMOVE OLD APPLIANCE

1. For old ranges with a gas connection, shut off the gas supply valve to the range and leave it off.
2. Shut off the electrical supply to the old range at the breaker box or fuse box and leave it off until the installation has been completed.
3. Move the appliance to access and disconnect electrical connection and gas connection if applicable.
4. Move the appliance out of and away from installation space.



Excessive Weight Hazard

- Use two or more people to move and install the oven. Failure to do so can result in back or other injury.

UNPACK NEW RANGE

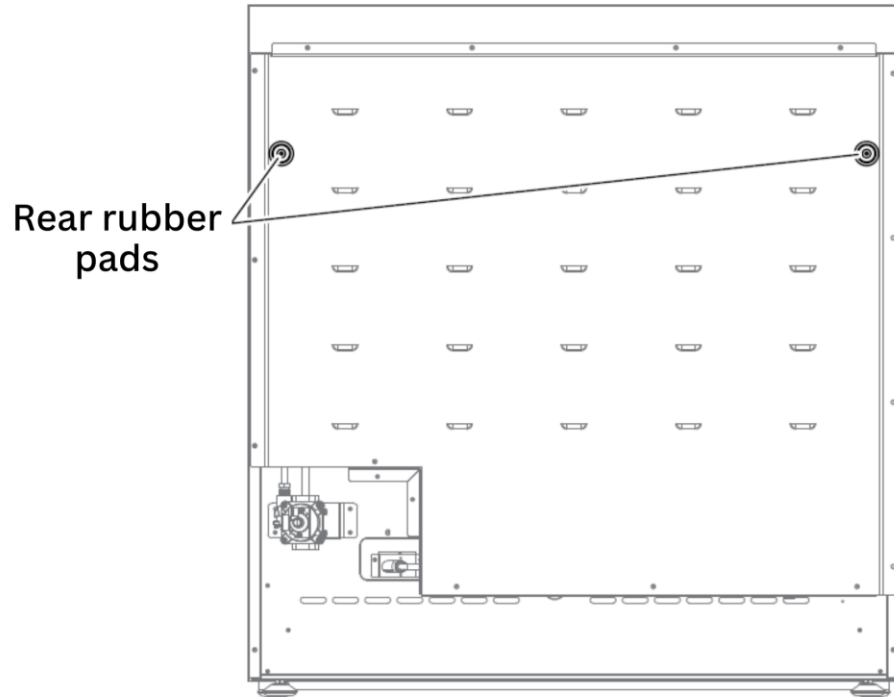
1. Remove shipping materials, tape and film from the range. Do not dispose of anything until the installation is complete.
2. Take the oven racks and parts package out of the oven and remove shipping materials.
3. Using 2 or more people, gently move the range close enough but outside its final installation location to allow for final electrical connections.

NOTE:

- Do not remove any warning-type labels, the model/serial number label, or the Tech Sheet that is located on the back of the range.
- Do not use sharp instruments, rubbing alcohol, flammable fluids, or abrasive cleaners to remove tape or glue. These products can damage the surface of your range.
- Do not push or pull the range by grabbing the open oven door or cooktop only. Doing so can result in serious damage to the range.
- Do not lift the range using the cooktop or oven door handle. Doing so can cause damage and improper operation of the range.
- To reduce the weight of the range while being moved, adjusted, and installed, leave the oven racks and any other accessories to the side until they are ready to be installed later in these instructions.
- To further reduce the weight of the range while being moved, adjusted, and installed, detach the oven door and the storage drawer from the range. See the "Removing/ Assembling Oven Door" and "Removing/ Assembling Storage Drawer" sections in this manual.

INSTALL REAR RUBBER PADS

1. Locate the rubber pads in the parts bag.
2. Install the rubber pads to the back panel of range. Do not overtighten.



INSTALL ANTI-TIP DEVICE

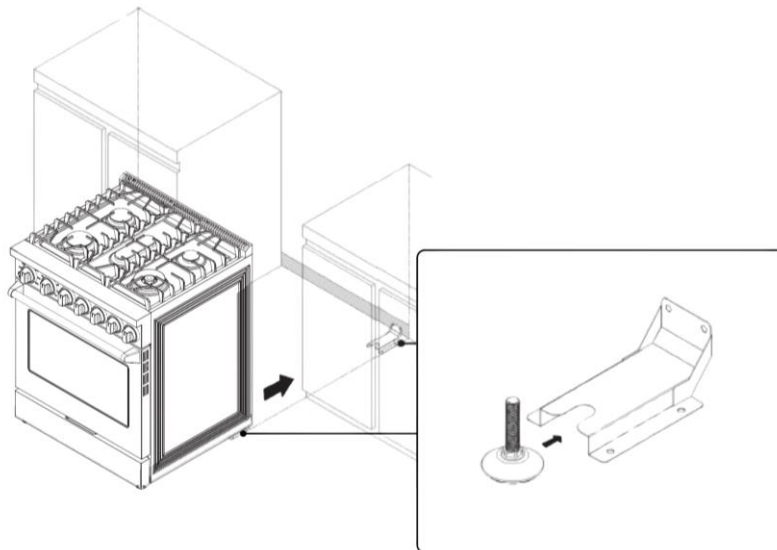


Tip Over Hazard

- A child or adult can tip the range and be killed.
- Install anti-tip bracket to floor or wall per installation instructions.
- Slide range back so rear range foot is engaged in the slot of the anti-tip bracket.
- Re-engage the anti-tip bracket if range is moved.
- Do not operate the range without the anti-tip bracket installed and engaged.
- Failure to follow these instructions can result in death or serious burns to children and adults.

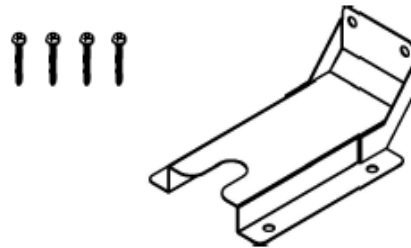
IMPORTANT:

- An anti-tip bracket is provided with the range.
- The anti-tip bracket uses a rear range foot to secure the range to the floor.
- Attach the anti-tip bracket to the floor or the wall so that the rear range foot will be centered within the bracket when the range is pushed into its final position.



INSTALLING THE ANTI-TIP DEVICE

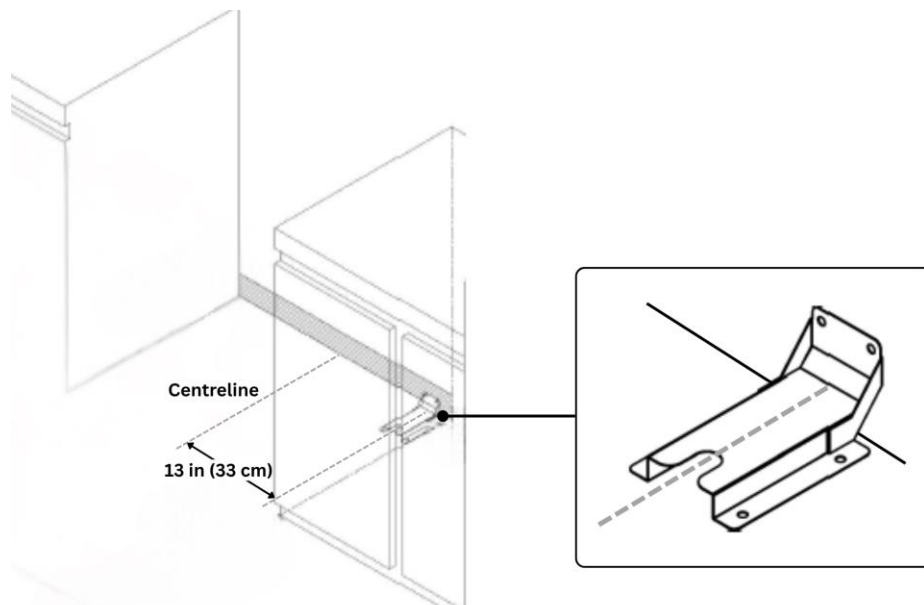
1. Locate and remove the anti-tip bracket and mounting screws from the parts bag.



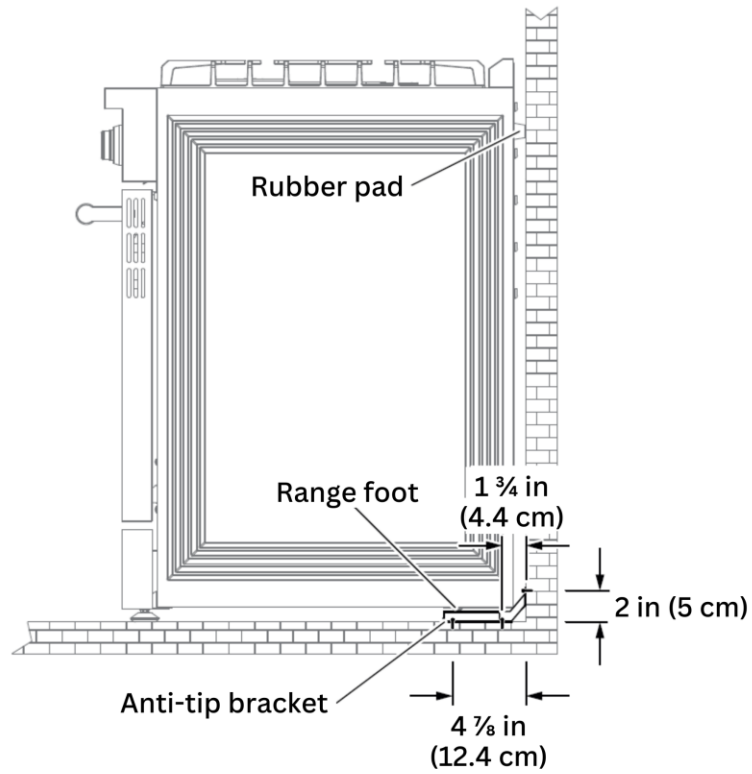
2. Determine which mounting method to use: floor or wall.

NOTE: If you are installing the range in a mobile home, you must secure the range to the floor.

3. Determine and mark the centerline of the installation space.
4. Position the anti-tip bracket against the wall in the installation space so the slot of the bracket is 13" (33 cm) from the centerline as shown. The anti-tip bracket can be installed on either the rear left or rear right side of the installation space.

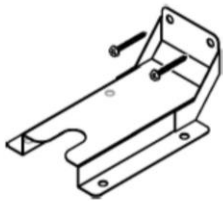


NOTE: Only one anti-tip bracket needs to be installed.

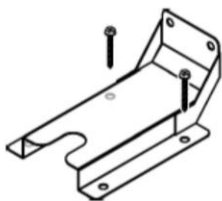


5. Mark two screw holes corresponding to the holes in the anti-tip bracket used for your chosen mounting method.

Wall Mounting

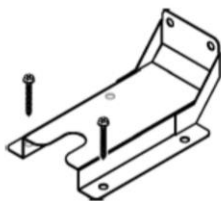


Floor Mounting



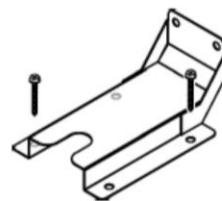
Rear holes

or



Front holes

or



Diagonal
(2 options)

6. Drill holes according to the instructions below relating to your wall construction:

Wood Construction

- Drill two 1/8" (3 mm) holes where screws are to be located. The screw must enter the wood.

Masonry Construction

- Due to the variety of masonry materials that may be present at the installation site, hardware is not provided for attaching the anti-tip bracket to masonry.
- If the bracket is to be mounted to masonry or ceramic floors, drill two appropriate holes for 5/16" OD sleeve anchors (with 1/4" bolt - either hex bolt head or hex nut head) rated for minimum 3001b tension for the masonry material present at the installation site.

7. Install the anti-tip bracket according to the instructions below relating to your wall construction:

Wood Construction

- Mount the anti-tip bracket to the wall or floor using the two mounting screws provided.

Masonry Construction

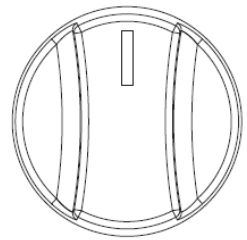
- Mount the anti-tip bracket to the floor using two 5/16" OD sleeve anchors (with 1/4" bolt - either hex bolt head or hex nut head).

INSTALLING/REMOVING CONTROL KNOBS

NOTE: Be very careful not to scratch the surface of the unit. The appearance of the knobs may vary from what is shown below.

INSTALLING THE CONTROL KNOBS

1. Hold the knob in an upright position with the OFF marking facing upward. Observe the open part centered on the back of the knob.
2. Place and align the open part on the back of the knob over the control stem that is sticking out of the control panel.
3. Press the knob onto the stem, and make sure the knob is in the OFF position.
4. Repeat the process with the remaining knobs.



REMOVING THE CONTROL KNOBS

1. Make sure the knob is in the OFF position.
2. Pull the knob straight off the stem.

INSTALLING/REMOVING OVEN DOOR HANDLE

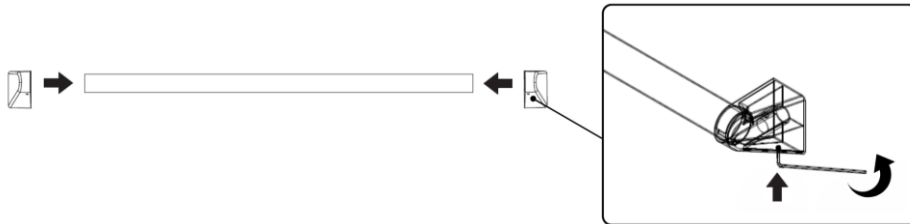
Be very careful not to scratch the surface of the unit. The appearance of the handle may vary from what is shown below, but the installation will be the same.

INSTALLING THE HANDLE

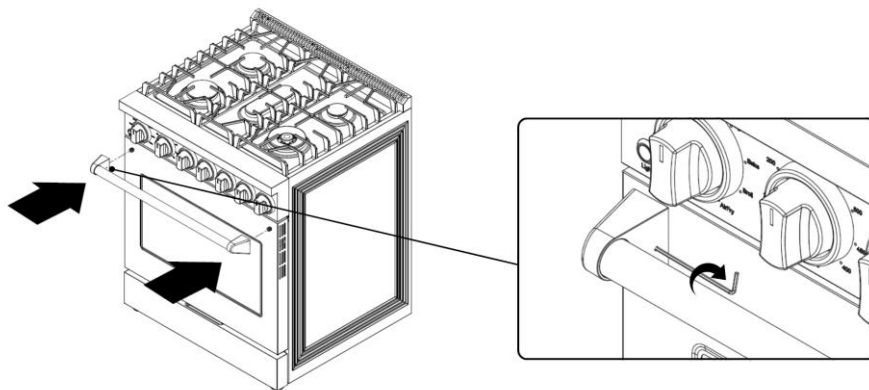
1. Locate the handle, end caps (2) and hex key in your installation kit.



2. Slide one end cap onto each end of the handle. Insert the hex key in the hole on the lower surface of the end cap and turn to tighten until the end cap is securely attached to the handle. Repeat the process with the second end cap.



3. Position the handle on the oven door with the end caps over the pre-installed connectors. Insert the hex key in the hole on the inner surface of the end cap and turn to tighten until the handle is securely attached to the oven door. Repeat the process with the second end cap.



4. Verify that the oven door handle is level and stable.

INSTALLING/REMOVING OVEN DOOR

For normal use, it is not suggested to remove the oven door. However if removal is necessary, make sure the oven is off and cool.

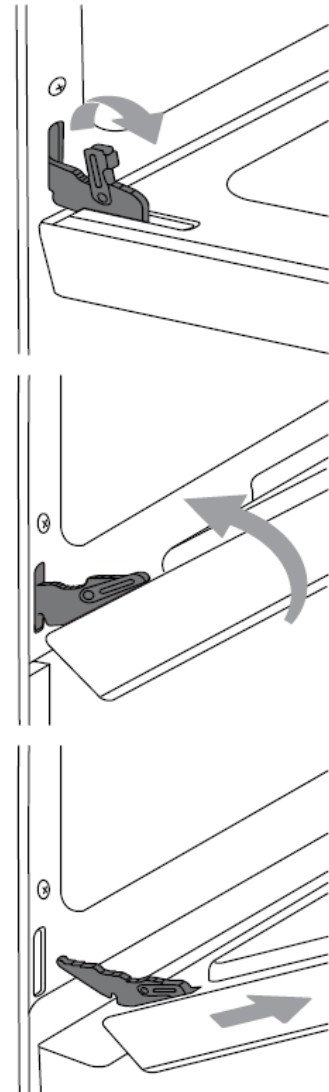
NOTE:

- The oven door is heavy.
- If the door is removed, confirm that the door operates correctly and seals properly when reinstalled. If the door gasket does not seal completely, heat escaping from around the door could ignite the cabinetry.

REMOVING THE DOOR

1. Fully open the oven door.
2. Unlock the hinge locks on both sides, rotating them as far toward the open door frame as they will go.
3. Firmly grasp both sides of the door.
4. Close the door to the removal position, which is approximately 5 degrees or 2-3 inches from being fully closed. When the door is correctly positioned, the hinge arms will move freely.
5. Lift the door up and out until the hinge arms are clear of the slots.

IMPORTANT: Do not lift the oven door by the door handle.

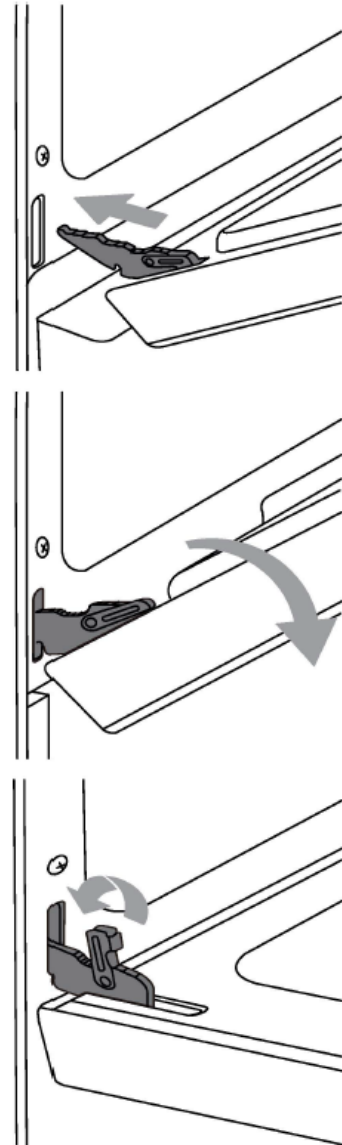


INSTALLING THE DOOR

1. Firmly grasp both sides of the door.
2. With the door at the same angle as the removal position, which is approximately five degrees or 2-3 inches from being fully closed, seat the indentation of the hinge arms into the bottom edge of the hinge slots. The notch in the hinge arms must be fully seated into the bottom edge of the slots.

IMPORTANT: Do not lift the oven door by the door handle.

3. Open the door fully. If the door will not open fully, the indentation is not seated correctly in the bottom edge of the slots.
4. Lock the hinge locks, rotating them back toward the slots in the oven frame until they lock.
5. Close the oven door. Check that the door is free to open and close and is level while closed.



INSTALLING/REMOVING STORAGE DRAWER

For normal range use, it is not suggested to remove the storage drawer. Most cleaning can be done with the drawer in place. However, if removal is necessary, make sure the drawer is empty.

REMOVING THE STORAGE DRAWER

1. Fully open the drawer.
2. Carefully lift the front end of the drawer and pull the drawer away from the range.

INSTALLING THE STORAGE DRAWER

1. Tilt the front end of the drawer up.
2. Align and insert the rear wheel on each side of the drawer onto the glides on the range.
3. Carefully lower the front end of the drawer and push the drawer into the range.
4. Open and close the drawer to ensure it is properly installed.

GAS CONNECTION



Fire and Explosion Hazard

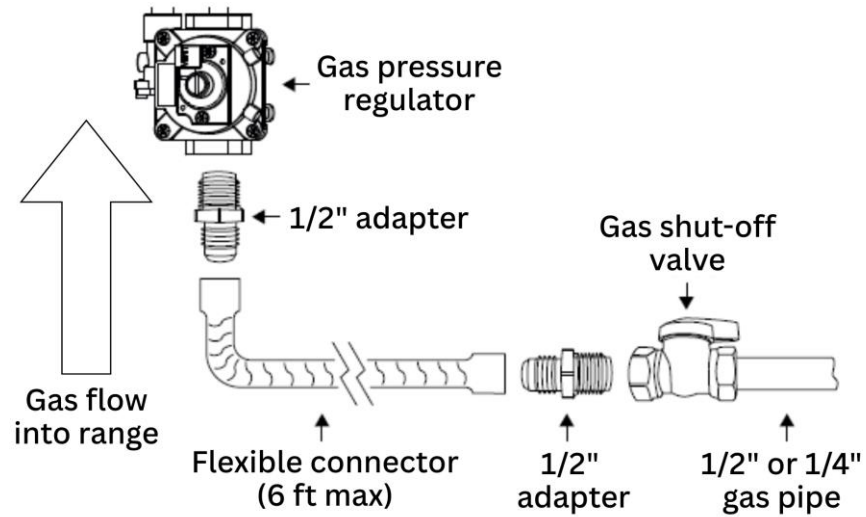
If the information in this manual is not followed exactly, a fire or explosion may result, causing property damage, personal injury or death.

- Installation and service must be performed by a qualified installer, service agency or the gas supplier.
- **WHAT TO DO IF YOU SMELL GAS:**
 - Do not try to light any appliance.
 - Do not touch any electrical switch.
 - Do not use any phone in your building.
 - Clear the room, building, or area of all occupants.
 - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
 - If you cannot reach your gas supplier, call the fire department.

IMPORTANT:

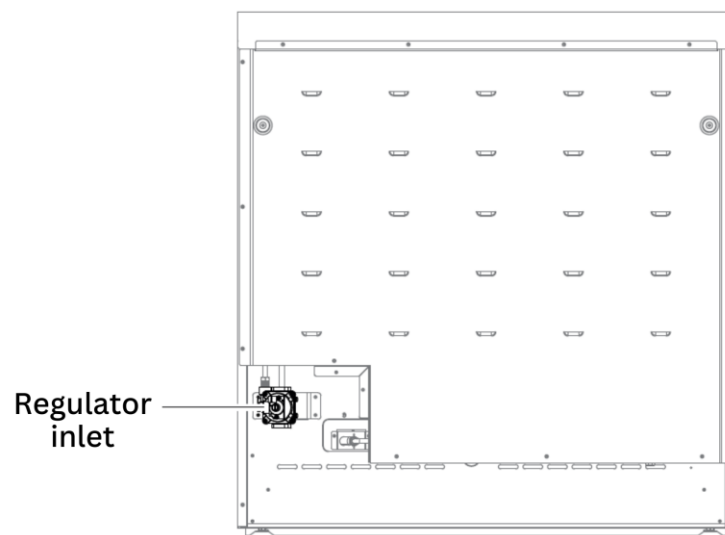
- This appliance shall be installed only by authorized persons and in accordance with the manufacturer's installation instructions, local gas fitting regulations, municipal building codes, electrical wiring regulations, and local water supply regulations.
- The agency performing this work assumes responsibility for the quality of work performed, including checking for leaks and ensuring installation meets code requirements.
- This range is factory-set for use with Natural gas. To use this range with Propane gas, see the "Gas Conversion" section before connecting this range to the gas supply. Gas conversions from Natural gas to Propane gas or from Propane gas to Natural gas must be done by a qualified installer.
- The gas pressure regulator supplied with this range must be used. See "Gas Supply Requirements" section for more details.

TYPICAL FLEXIBLE CONNECTION



1. Make sure a manual gas line shut-off valve is installed in an easily accessible location.
2. Turn the manual shut-off valve to the closed position.
3. Unplug range or disconnect power.
4. If present, remove the plastic cap at the regulator inlet on the back of the range.

IMPORTANT: Do not remove the gas pressure regulator.



5. Apply pipe-joint compound made for use with NG/LP gas to the smaller thread ends of the flare union adapters.
6. Attach male 1/2" flare union adapter to the 1/2" NPT internal thread at the regulator inlet with a wrench using no more than 15 ft-lbs of torque. Use a backup wrench on the regulator fitting to avoid damage.

NOTE: Do not make connections to the gas regulator too tight. Over-tightening may crack the regulator resulting in a gas leak and possible fire or explosion.

7. Attach male 1/2" or 3/4" flare union adapter to the NPT internal thread of the manual shut-off valve with a wrench using no more than 15 ft-lbs of torque, being certain not to move or turn the shut-off valve.
8. Connect one end of the flexible gas supply line connector to the flare union adapter on the range.
9. Position range near the installation space to permit flexible gas supply line connection at the shut-off valve, and connect other end of flexible gas supply line connector to the flare union adapter at the shut-off valve. Check that the flexible gas supply line is not kinked, and use wrenches to tighten flexible gas supply line connections.

TYPICAL RIGID PIPE CONNECTION

IMPORTANT: Hard piping restricts movement of the range. Since the range must be pulled away from the installation space to provide access to the gas regulator connections, it should only be installed using a CSA International-certified flexible metal appliance connector.

- If local codes require a hard-piped connection, a combination of pipe fittings must be used to connect the range to the existing gas line and maintain an accessible working space behind the range.
- Hard-piped connections vary according to the supply line type, size and location. Consult with a qualified local technician for an optimal connection suitable for your installation.

CONVERTING TO LIQUID PROPANE (LP) GAS

This range is shipped from the factory set up to use Natural gas (NG). It can be converted to operate on Propane gas (LP) by a qualified service technician using the included LP conversion kit.

- The conversion to LP requires all surface and oven burner gas orifices to be changed. In addition, the gas pressure regulator must also be adjusted for LP.
- All replaced orifices must be left with the consumer, including the instructions and retrofit sizes and orifice indication.
- See the “LP Conversion” section of this manual for detailed instructions.

COMPLETE THE GAS CONNECTION

1. Check that all range controls are in the OFF position.
2. Open the manual shut-off valve in the gas supply line. The valve is open when the handle is parallel to the gas pipe.
3. Test all connections by brushing on an approved noncorrosive leak-detection solution. If bubbles appear, a leak is indicated. Correct any leak found.

COMPLETING THE INSTALLATION

WARNING



Electrical Shock Hazard

- Remove house fuse or open circuit breaker to disconnect power before servicing.
- This appliance must be properly grounded.
- Do not use an adapter or an extension cord.
- Failure to do so can result in death, fire, or electrical shock.

IMPORTANT:

- The power cord of this appliance is equipped with a three-prong (grounding) plug which plugs into a standard three-prong grounding wall receptacle.
- Where a standard two-prong wall receptacle is encountered, contact a qualified electrician to have it replaced with a properly grounded three-prong wall receptacle.
- **DO NOT, UNDER ANY CIRCUMSTANCES, CUT OR REMOVE THE (THIRD) GROUNDING PRONG FROM THE PLUG.**
- Before connecting the appliance to the power supply, make sure that the voltage and frequency listed on the rating label correspond with the household electrical supply. This data must correspond to prevent appliance damage. Consult an electrician if in doubt. It is the personal responsibility of the oven owner to provide the correct electrical service for this oven.

WARNING



Excessive Weight Hazard

- Use two or more people to move and install the oven. Failure to do so can result in back or other injury.



Laceration, Foreign Object, Crush Hazard

- When installing, moving, or servicing any appliance, wear proper protective equipment, including cut resistant gloves, steel-toed shoes, and safety glasses.

IMPORTANT:

- Do not lift by the oven door handle or control knobs. Push, pull, or lift only on the range's body or structural areas, such as the oven, oven face, or back corners.
- Do not move the unit by pushing or pulling on the door or control panel. Grasp the left/right door area to push the unit.
- Move range by lifting, not sliding, to prevent damage to floors.
- Use a belt when moving the range to prevent damaging the floor, or use cardboard, plywood, or stiff plastic to protect floors if sliding is necessary.
- Be careful not to pinch or kink the electrical connection. If the unit does not move smoothly, check for obstructions. Do not attempt to force the unit into position.

COMPLETE THE ELECTRICAL CONNECTION

1. Check that all range controls are in the OFF position.
2. Plug the range into a grounded 3-prong wall receptacle.

PLACE AND LEVEL RANGE

NOTE: Getting the unit properly placed in the installation space and level may require multiple attempts. It is recommended to measure and adjust leveling legs carefully before placing the oven into the installation space, as the leveling legs may be difficult to adjust once the range is in its final position.

1. Measure the distance from the top of the countertop to the floor at all four corners of the installation space.

2. While the range is still positioned outside the installation space, measure the distance from the top of the cooktop to the bottom of each leveling leg. If this distance does not match the distance measured at the corresponding corner of the installation space, use a wrench or pliers to loosen and adjust the leveling legs to the correct height.

NOTE: Height adjustments can be made when the range is standing. Tilt the range back to adjust the front legs, and then tilt forward to adjust the rear legs. The leveling legs can be loosened up to a maximum of 1" (2.6 cm).

3. When the range is at the correct height, check and make sure that there is minimum clearance of 11/16" (1.8 cm) under the range for the anti-tip bracket.
4. Check that all range controls are in the OFF position. Plug power cord into a grounded outlet or connect conduit to a grounded junction box.
5. Using 2 or more people, gently move the range into its final location and make sure the rear leveling leg is engaged in the slot of the anti-tip bracket.

NOTE: Be careful not to damage countertops, floor, or the appliance when moving. Check to ensure the electrical cord is not pinched or kinked.

6. Place a level diagonally on the oven bottom or oven rack and check the level in each diagonal direction. If range is not level, use a wrench or pliers to adjust leveling legs up or down until it is level.

NOTE: Range must be level for optimum cooking and baking performance.

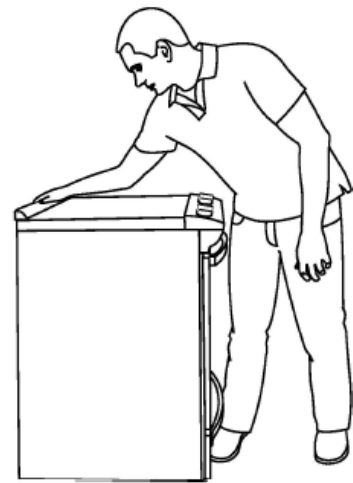
7. Reinstall the oven door and storage drawer and insert oven racks if they were previously removed. See the "Removing/Installing Oven Door" and "Removing/Installing Storage Drawer" sections.

VERIFY ANTI-TIP BRACKET ENGAGEMENT

IMPORTANT: Do not operate the range without the anti-tip bracket installed and engaged. If the range is moved from the final location for any reason, always verify anti-tip bracket engagement again.

1. Place the outside of your foot against the bottom of the front panel to keep the range from moving, and then grasp the back of the range as shown.
2. Carefully and slowly attempt to tilt the range forward.

- If you encounter immediate resistance, the rear foot is engaged in the anti-tip bracket. Verification is completed. Skip the steps below.
- If the rear of the range lifts more than $\frac{1}{2}$ " (1.3 cm) off the floor without resistance, stop tilting the range and lower it gently back to the floor. The rear range foot is not engaged in the anti-tip bracket. Proceed to steps 3, 4, and 5.



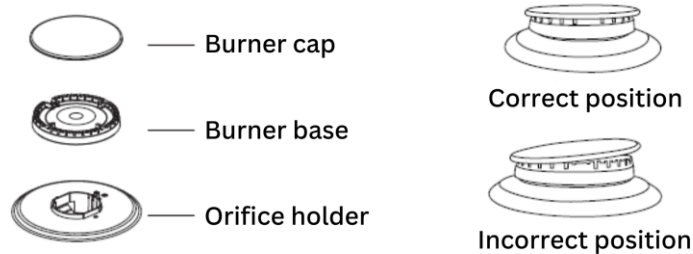
IMPORTANT: If there is a snapping or popping sound when tilting the range, the range may not be fully engaged in the anti-tip bracket. Check to see if there are obstructions keeping the range from sliding to the wall or keeping the rear range foot from sliding into the bracket. Verify that the bracket is held securely in place by the mounting screws.

3. Slide the range forward, and verify that the anti-tip bracket is securely attached to the floor or wall.
4. Slide the range back so the rear foot is inserted in the slot of the anti-tip bracket.
5. Repeat steps 1 and 2 to verify that the rear foot is engaged in the anti-tip bracket.
 - If the rear of the range continues to lift more than $\frac{1}{2}$ " (1.3 cm) off the floor without resistance, the anti-tip bracket may not be installed correctly. Please reference the contact information at the end of this manual to contact service.

ASSEMBLE SURFACE BURNERS AND GRATES

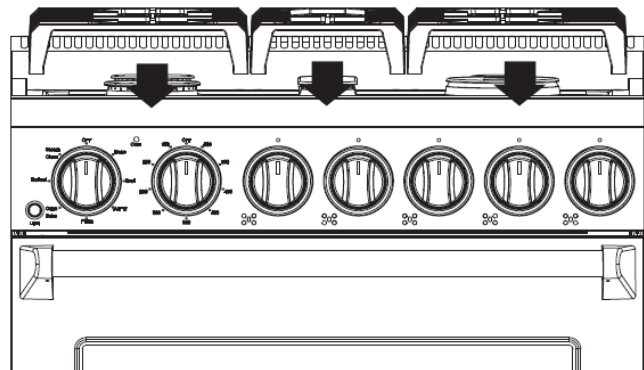
IMPORTANT: Do not operate the burners without all parts in place.

1. Check that all range controls are in the OFF position.
2. If the surface burner bases and caps are not already installed, locate and remove them from the parts package.
3. Align and place the burner bases and caps in the correct locations.
 - Align the notches in burner caps with pins in the burner base.
 - Make sure the hole in the burner base is positioned over the igniter.
 - Burner caps should be level and should not rock or wobble when properly positioned.
 - If burner caps are not properly positioned, surface burners will not light.



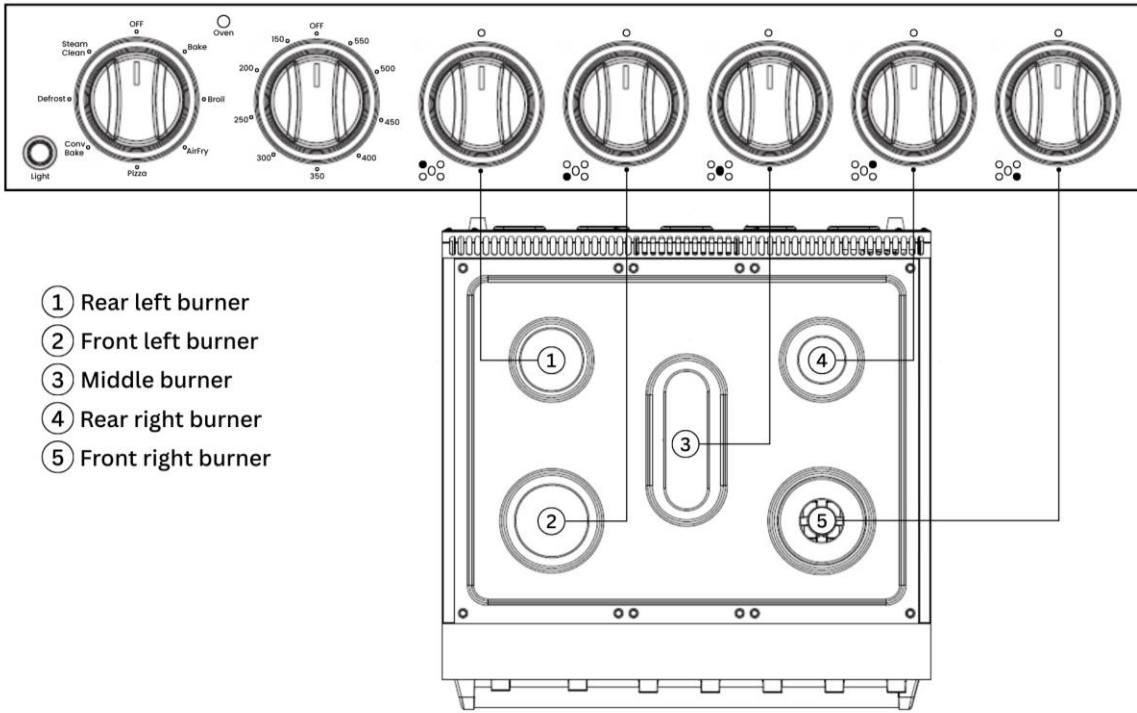
4. Remove any packaging materials on burner grates if present, and place the burner grates over the burner bases and caps.

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



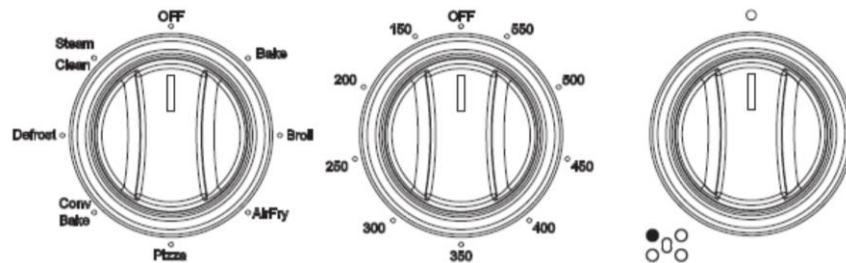
VERIFY SURFACE BURNER OPERATION

1. Select a burner and locate its control knob.



- ① Rear left burner
- ② Front left burner
- ③ Middle burner
- ④ Rear right burner
- ⑤ Front right burner

2. Push the control knob in and turn it to the Ignite position. The electric spark ignition system will make a clicking noise.



NOTE: When one burner is turned to Ignite, other burners will spark. Sparking will continue as long as the knob remains at Ignite. Do not touch any surface burner components (e.g. burner cap, burner base, igniter) while the igniters are sparking.

3. The flame should light within about 4 seconds. Once the gas is ignited, turn the control knob to adjust the flame size.

NOTE: The first time a burner is lit, it may take longer than 4 seconds to light because of air in the gas line

4. For each burner, one at a time:

- Rotate the knob quickly to the lowest setting and confirm that the flame is not extinguished.
- Compare flame height at the highest and lowest setting and confirm that flame height is sufficiently reduced when turned to the lowest setting.
- Visually verify the combustion quality of the burner flames according to the following chart:

Flame Colour	Combustion Quality
Soft blue flames	This is normal for natural gas.
Blue flames with yellow tips on outer cones	This is normal for LP gas.
Yellow flames	This is abnormal for any gas operation. Call for service.

5. With one burner still at the lowest setting and all others at highest setting, quickly open and close the oven door and confirm that the flame is not extinguished.

6. If all the surface burners light and operate properly, verification is completed. Skip the steps below.

IF ANY OF THE BURNERS DOES NOT LIGHT PROPERLY

1. Turn the control knob to the OFF position.
2. Check that the range is plugged into a grounded 3 prong outlet. Check that the circuit breaker has not tripped or the fuse has not blown.
3. Check that the gas shut-off valves are set to the open position.
4. Check that burner caps are properly positioned on burner bases.

5. Check that all packing material and tape have been removed. Failure to remove these materials could result in damage to the appliance once the appliance has been turned on and surfaces have heated.
6. Repeat the verification process above. If the appliance still fails to operate correctly after you have completed all the steps above, turn the control knobs to the OFF position and contact Kenmore Customer Assistance.

ABNORMAL OPERATION

Any of the following is considered abnormal operation and may require servicing:

- Yellow burner flames.
- Sooting up of cooking utensils.
- Burners not igniting properly.
- Burners failing to remain lit.
- Burners extinguished by oven door.
- Gas valves which are difficult to turn.

NOTE: The burners require no regulation of the primary air.

VERIFY OVEN OPERATION

Before you begin, ensure power is in service, all packaging is removed, and the oven is empty except for the oven racks. Oven burners do not require any adjustment.

CHECK THE BROIL BURNER

1. With the oven door closed, turn the Oven Function knob to **Broil** and the Oven Temperature knob to 550°F.
2. After 30-60 seconds, the upper broil burner should light and can be visually seen through the oven door window. If the upper broil burner does not light, turn off the oven and contact a qualified technician.
3. Turn the Oven Function and Temperature knobs to the OFF position.

CHECK THE BAKE BURNER

1. With the oven door closed, turn the Oven Function knob to Conv Bake and the Oven Temperature knob to 550°F.
2. After 2-3 minutes, open the oven door. Without touching the oven components, confirm that heat can be felt radiating from the bottom of the oven and the rear convection fan is operating. If you do not feel heat, turn off the oven and contact a qualified technician.
3. Close the oven door and let the oven run for 30-60 minutes to burn off and remove any dust or residue from the manufacturing process. There will be a distinctive odor which is normal. Ensure that your kitchen is well-ventilated during this conditioning period.
4. Turn the Oven Function and Temperature knobs to the OFF position to exit Convection Bake mode.

LP CONVERSION INSTRUCTIONS



Fire and Explosion Hazard

- This LP 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.



Electrical Shock Hazard

- Before proceeding with the conversion, shut off the gas supply and then disconnect 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.

BEFORE STARTING THE LP CONVERSION

- Determine the combination of top burners featured on your range from the chart below and identify the parts you need from the kit to complete the LP conversion.
- **NOTE:** For operation at elevations above 2000 ft (610 m), the appliance rating shall be reduced by 4% for each 1000 ft (305 m) above sea level.

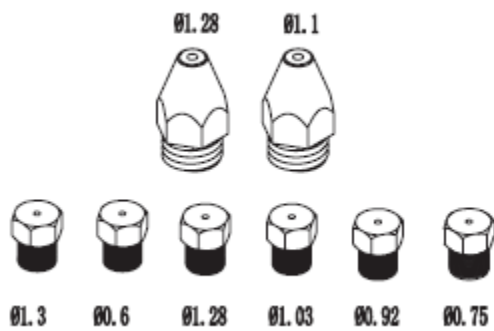
KKProGRFC30X5-AFC		
Burner Location	Orifice size (mm)	
	NG	LP
Left front	1.97	1.28
Left rear	1.57	1.03
Middle	1.36	0.92
Right front	2.09	1.3
	0.78	0.6
Right rear	1.09	0.75
Broil	1.69	1.1
Bake	2.02	1.28

KKKProGRFC36X6.2-AFC		
Burner Location	Orifice size (mm)	
	NG	LP
Left front	1.97	1.28
Left rear	1.36	0.92
Middle front	1.97	1.28
Middle rear	1.57	1.03
Right front	2.09	1.3
	0.78	0.6
Right rear	1.09	0.75
Broil	1.69	1.1
Bake	2.02	1.28

KKProGRFC48X7.6-AFC		
Burner Location	Orifice size (mm)	
	NG	LP
Right front	1.57	1.03
Right rear		
Middle front	1.97	1.28
Middle rear	1.57	1.03
Left front		
Left rear		
Griddle	1.7	1.16
Broil	1.66	1.05
Bake	2.11	1.33
18 in Bake	1.58	1.12

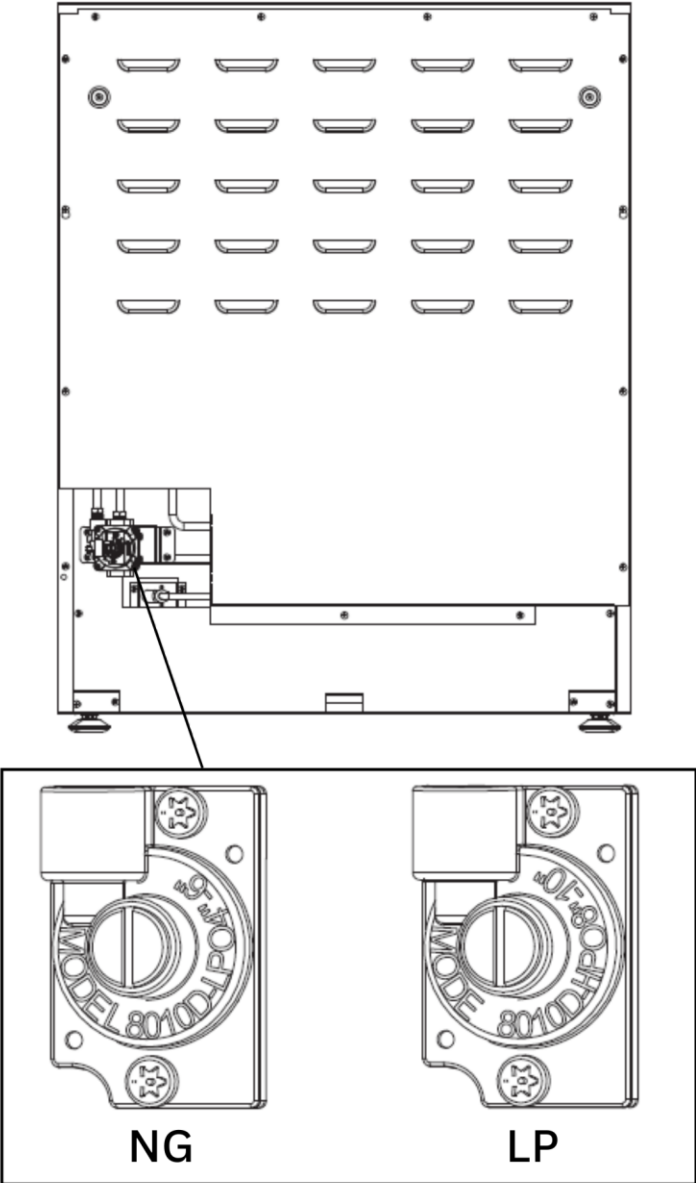
PARTS INCLUDED

- LP Orifices x 8, details as marked below:



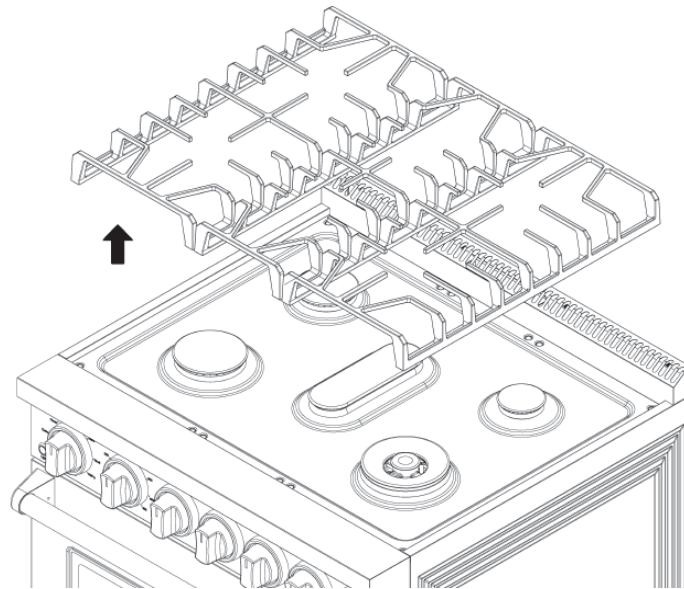
LP CONVERSION INSTRUCTIONS

- 1. Replace the NG-LP conversion cover of the pressure regulating valve.

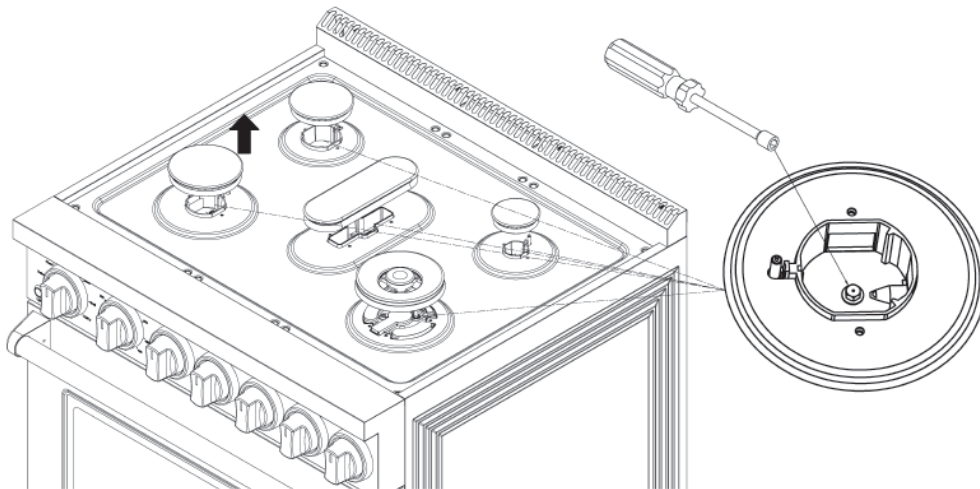


CONVERT THE SURFACE BURNERS

1. Remove the surface grate.

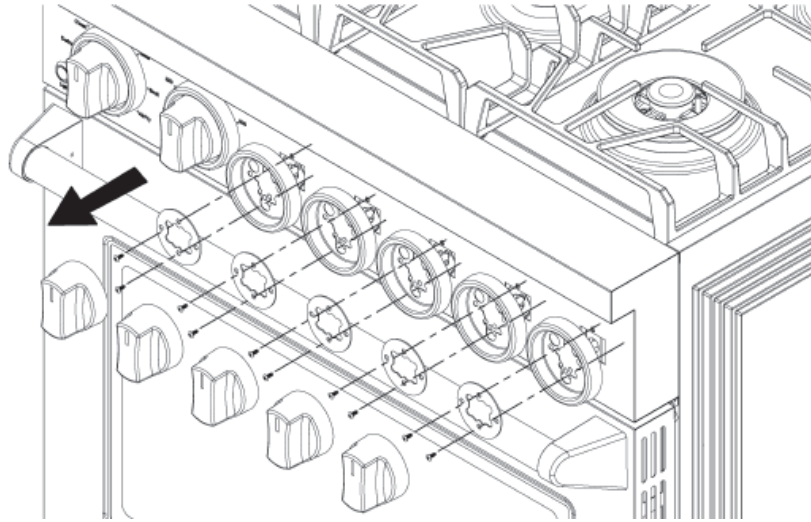


2. For each surface burner, remove burner cap and base and replace the existing orifice with the corresponding LP orifice according to the charts above. The orifices are stamped with their size number.

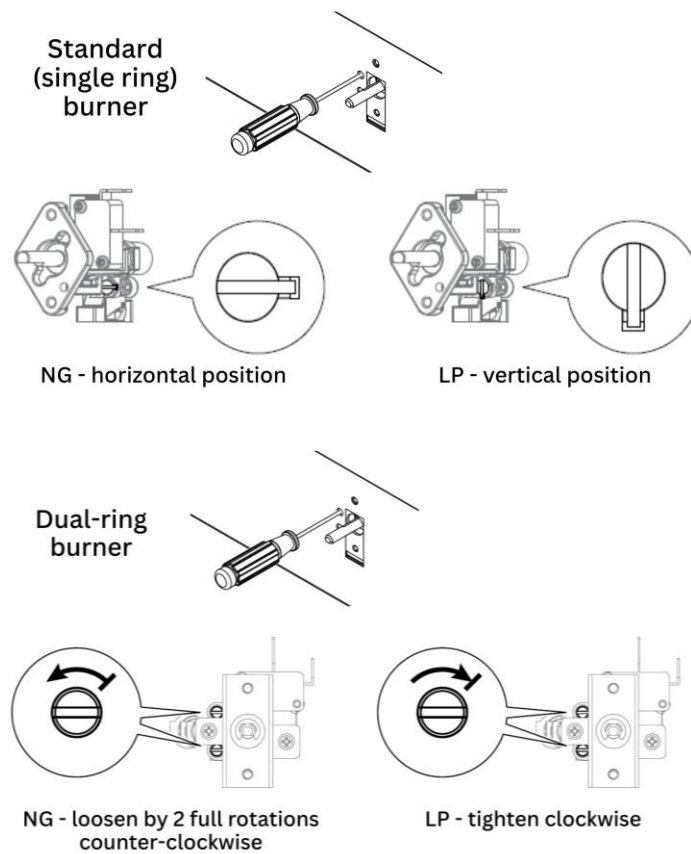


IMPORTANT: Keep and store the original orifices in case of reinstallation for use with another gas.

3. Pull the burner control knob straight off and remove the screws that secure the metal bezel. Remove the bezel and fixing plate for each control knob.



4. Locate the adjustment screw on each burner valve and use a slotted (flat-head) screwdriver to turn it to the correct position for the fuel type.

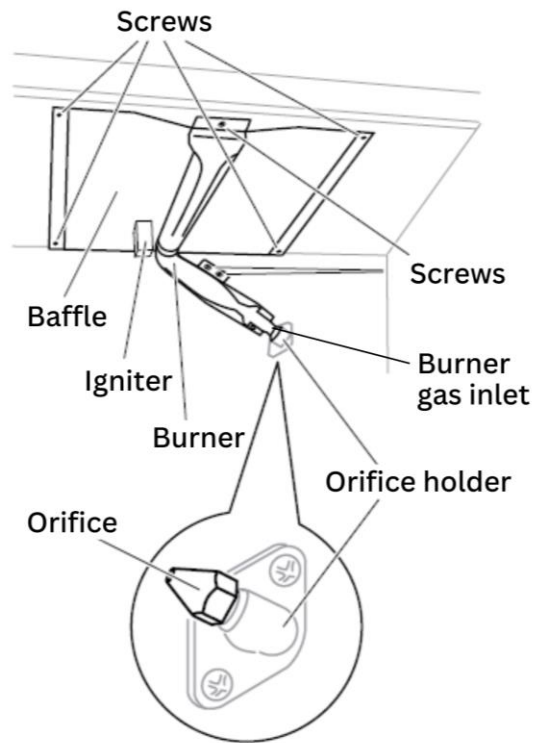


IMPORTANT: The air valves are set to NG when the range leaves the factory and must be switched to LP and locked when converting to LP.

5. Replace the bezels, fixing plates, and control knobs.

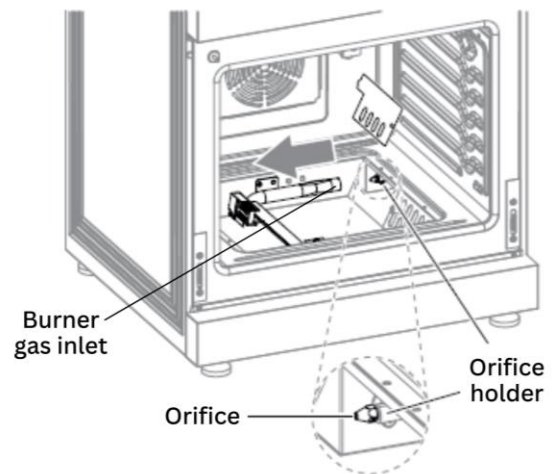
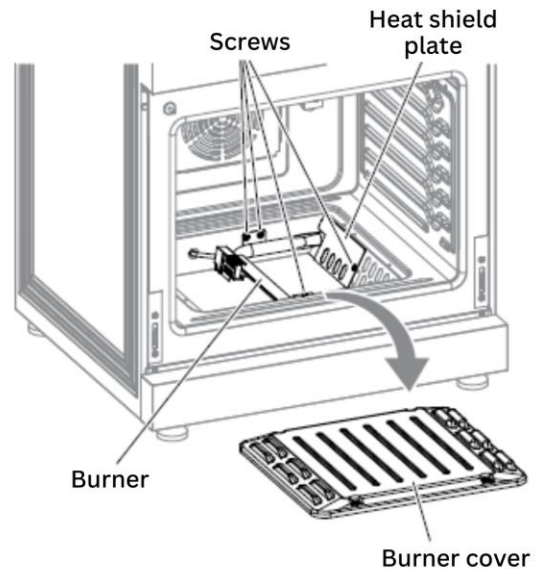
CONVERT THE BROIL BURNER

1. Remove the oven door and take out the oven racks.
2. Remove the 4 screws from the broil burner baffle at the oven top.
3. While supporting the broil burner, remove the 3 screws.
4. Carefully remove the broil burner assembly (burner, igniter, and baffle) from the broil orifice holder.
5. Tip the front of the assembly downwards and lean it out of the way, being careful not to damage the igniter wire or oven surfaces.
6. Replace the broil orifice with the corresponding LP orifice according to the charts above.
7. Place the broil burner gas inlet on the broil orifice holder and align the burner assembly with the top and rear of the oven. Make sure the igniter wire is properly inserted into the rear hole.
8. Replace the screws on the burner assembly.



CONVERT THE BAKE BURNER

1. Lift and remove the bake burner cover on the oven bottom.
2. Remove the screw in the middle of the lower heat shield on the right and pull out the rear heat shield plate to uncover the bake orifice holder.
3. Remove the 3 screws from the bake burner.
4. Gently move the burner to the left and away from the bake orifice holder, being careful not to damage the igniter wire.
5. Replace the bake orifice with the corresponding LP orifice according to the charts above.
6. Place the bake burner gas inlet on the bake orifice holder and align the burner with the oven. Make sure the igniter wire is properly inserted into the rear hole.
7. Replace the screws on the burner and then replace the rear heat shield plate and the burner cover.



COMPLETE THE LP CONVERSION

1. Reinstall the oven door.
2. Reconnect the gas and electrical supply to the range.
3. Perform leak testing according to the 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, out burner head, and burden 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 an inside diameter of approximately $\frac{1}{4}$ in 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 2 other top burners burning. Be sure that the gas supply (inlet) pressure is at least 1 in above the specified manifold pressure. The gas supply pressure should never be over 14" water column or below 11" water column. When properly adjusted the manifold water column pressure is 10" for LP gas or 5" for Natural Gas.

NOTE: When you are using your top burners, if the flame needs to be adjusted to fit your need, please adjust the bypass orifice on the burner valve by rotating the bypass with a small flat screwdriver. Check the flame's condition to get the best performance.



Fire and Explosion Hazard

DO NOT USE A FLAME TO CHECK FOR GAS LEAKS:

- 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 in of water column pressure (approximately $\frac{1}{2}$ " psig).
- 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 14in water column pressure (approximately $\frac{1}{2}$ in psig).

WARRANTY

WITH PROOF OF ORIGINAL SALE, the following warranty coverage applies when this appliance is correctly installed, operated and maintained according to all supplied instructions.

2 YEARS LIMITED WARRANTY ON APPLIANCE

FOR TWO YEARS from the date of original sale this appliance is warranted against defects in material or workmanship.

A defective appliance will receive free repair. If the appliance cannot be repaired, it will be replaced free of charge.

This warranty covers ONLY defects in material and workmanship, and will NOT pay for the exclusions to repair service listed as follows:

1. A service technician to clean or maintain the product.
2. A service technician to instruct the user in correct appliance installation, operation or maintenance.
3. Expendable items that can wear out from normal use within the warranty period, including but not limited to filters, belts, bags or screw-in base light bulbs.
4. Cracks in a ceramic glass cooktop that are not a result of thermal shock.
5. Stains and scratches on a ceramic glass cooktop resulting from accident or improper operation or maintenance, nor for discoloration of any cooktop surface resulting from normal use.
6. Service calls to correct appliance installation not performed by Kenmore authorized service agents, or to repair problems with house fuses, circuit breakers, house wiring, and plumbing or gas supply systems resulting from such installation.
7. Damage to or failure of this appliance resulting from installation not performed by Kenmore authorized service agents, including installation that was not in accord with electrical, gas or plumbing codes.
8. Damage to or failure of this appliance, including discoloration or surface rust, if it is not correctly operated and maintained according to all supplied instructions.
9. Damage to or failure of this appliance, including discoloration or surface rust, resulting from accident, alteration, abuse, misuse or use for other than its intended purpose.
10. Damage to or failure of this appliance, including discoloration or surface rust, caused by using detergents, cleaners, chemicals or utensils other than those recommended in all instructions supplied with the product.
11. Damage to or failure of this appliance resulting from natural or other catastrophe, such as flood, fire or storm.
12. Damage to or failure of parts or systems resulting from unauthorized modifications made to this appliance.
13. Service to an appliance if the model and serial plate is missing, altered, or cannot easily be determined to have the appropriate certification logo.

The Kenmore brand is used under license. Direct all claims for warranty service to Kenmore Customer Assistance, call 1-800-265-8456 or email service@koolatron.com

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