

JENN-AIR®

30" (76.2 CM) AND 36" (91.4 CM) GAS BUILT-IN COOKTOP INSTALLATION INSTRUCTIONS

INSTRUCTIONS D'INSTALLATION DE LA TABLE DE CUISSON À GAZ ENCASTRÉE DE 30" (76,2 CM) ET DE 36" (91,4 CM)

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COOKTOP SAFETY

Your safety and the safety of others are 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 "DANGER" or "WARNING."

These words mean:

⚠ DANGER

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

⚠ WARNING

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

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.

IMPORTANT:

Installer: Leave installation instructions with the homeowner.

Homeowner: Keep installation instructions for future reference.

IMPORTANT :

Installateur : Remettre les instructions d'installation au propriétaire.

Propriétaire : Conserver les instructions d'installation pour référence ultérieure.

WARNING: If the information in this manual is 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 vapors and liquids in the vicinity of this or any other appliance.
- **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.
 - 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.
- Installation and service must be performed by a qualified installer, service agency or the gas supplier.

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.

If a gas leak is detected, follow the "What to do if you smell gas" instructions.

IMPORTANT: Do not install a ventilation system that blows air downward toward this gas cooking appliance. This type of ventilation system may cause ignition and combustion problems with this gas cooking appliance resulting in personal injury or unintended operation.

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.

INSTALLATION REQUIREMENTS

Tools and Parts

Gather the required tools and parts before starting installation.

Tools needed

- Tape measure
- Flat-blade screwdriver
- $\frac{1}{16}$ " (24 mm) combination wrench
- Pipe wrench
- Channel lock pliers
- Marker or pencil
- Pipe-joint compound resistant to LP gas
- Noncorrosive leak-detection solution

Parts supplied

- Gas pressure regulator
- Burner grates: common (4), center (1)
- Burner bases (5)
- Burner caps (5)
- Simmer cap
- Clamp brackets (2)
- $2\frac{1}{2}$ " (6.4 cm) clamping screws (2)
- Foam tape seal
- LP conversion kit - W10686634

Parts needed

Check local codes and consult gas supplier. Check existing gas supply and electrical supply. See "Electrical Requirements" and "Gas Supply Requirements" sections.

Location Requirements

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

- It is the installer's responsibility to comply with installation clearances specified on the model/serial/rating plate. The model/serial/rating plate is located on the underside of the cooktop burner box.
- Do not unpack the burner grates and bases until after the cooktop is installed to avoid scratching the cooktop.
- 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 that projects horizontally a minimum of 5" (12.7 cm) beyond the bottom of the cabinets.
- The cooktop should be installed in a location away from strong draft areas, such as windows, doors and strong heating vents or fans.
- All openings in the wall or floor where cooktop is to be installed must be sealed.
- Cabinet opening dimensions that are shown must be used. Given dimensions are minimum clearances.
- Grounded electrical supply is required. See "Electrical Requirements" section.
- Proper gas supply connection must be available. See "Gas Supply Requirements" section.
- The gas and electric supply should be located as shown in "Gas and Electric Connection Locations" in the "Location Requirements" section so that they are accessible without requiring removal of the cooktop.

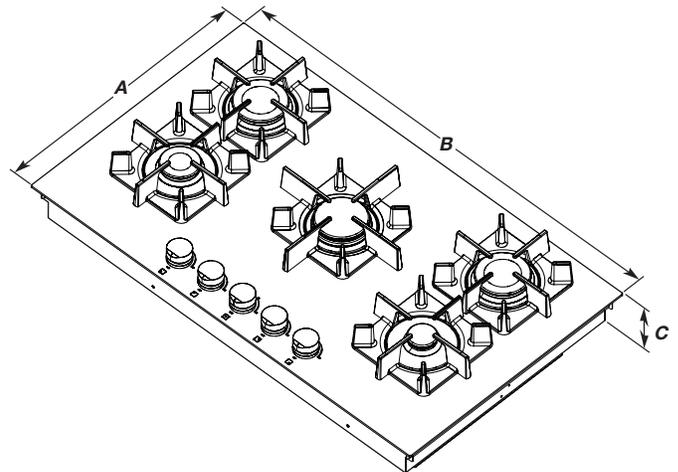
IMPORTANT: To avoid damage to your cabinets, check with your builder or cabinet supplier to make sure that the materials used will not discolor, delaminate or sustain other damage.

Mobile Home - Additional Installation Requirements

The installation of this cooktop 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 such 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 cooktop must conform with the current standards CAN/CSA-A240-latest edition, or with local codes.

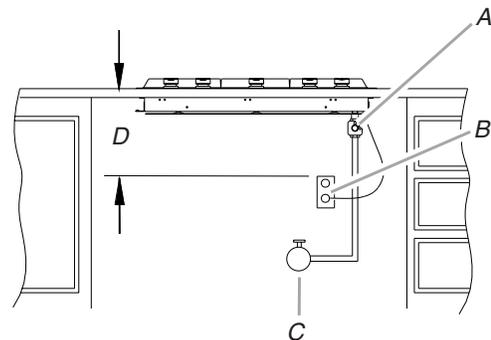
Product Dimensions



- A. *21" (53.3 cm)
- B. *30" (76.2 cm) on 30" (76.2 cm) models
36" (91.4 cm) on 36" (91.4 cm) models
- C. 3 $\frac{1}{4}$ " (8.3 cm)

*Metal tabs should not be bent during installation

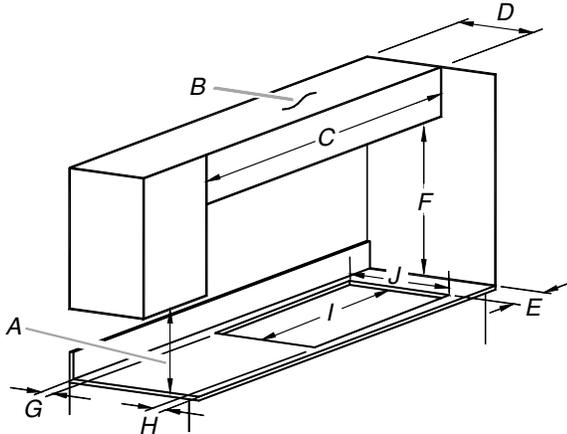
Gas and Electric Connection Locations



- A. Gas pressure regulator (supplied) - arrow pointed toward cooktop
- B. 3 prong grounding type outlet with correct polarity
- C. Gas shutoff valve
- D. 18" (45.7 cm) minimum

Installation Clearances

IMPORTANT: 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.



- A. 18" (45.7 cm) minimum clearance upper cabinet to countertop
- B. Cabinet
- C. 36" (91.4 cm)
- D. 13" (33 cm) maximum recommended upper cabinet depth
- E. 6" (15.2 cm) minimum side wall clearance
- F. 30" (76.2 cm) minimum clearance between top of cooktop platform and bottom of uncovered wood or metal cabinet (24" [61 cm] minimum clearance if bottom of wood or metal cabinet is covered by not less than 1/4" [0.6 cm] flame retardant millboard covered with not less than No. 28 MSG sheet steel, 0.015" [0.04 cm] stainless steel, or 0.024" [0.06 cm] aluminum or 0.020" [0.05 cm] copper)
- G. 2 5/16" (5.9 cm) minimum distance to rear combustible surface
- H. 2 5/16" (5.9 cm) minimum distance to front countertop edge
- I. Cutout width - 29 3/8" (74.6 cm) on 30" (76.2 cm) models
Cutout width - 35 3/8" (89.9 cm) on 36" (91.4 cm) models
- J. Cutout depth - 20 3/8" (51.8 cm)

NOTE: After making the countertop cutout, some installations may require notching down the base cabinet side walls to clear the burner box. To avoid this modification, use a base cabinet with sidewalls wider than the cutout.

If cabinet has a drawer, a 4" (10.2 cm) depth clearance from the countertop to the top of the drawer (or other obstruction) in base cabinet is required. The drawer depth may need to be shortened to avoid interfering with the regulator and power cord.

Electrical Requirements

! WARNING



Electrical Shock Hazard

Plug into a grounded 3 prong outlet.

Do not remove ground prong.

Do not use an adapter.

Do not use an extension cord.

Failure to follow these instructions can result in death, fire, or electrical shock.

IMPORTANT: The cooktop must be electrically grounded in accordance with local codes and ordinances, or in the absence of local codes, with the National Electrical Code, ANSI/NFPA 70 or Canadian Electrical Code, CSA C22.1.

This cooktop is equipped with an electronic ignition system that will not operate if plugged into an outlet that is not properly polarized.

This cooktop is equipped with an electronic ignition system that will not operate properly if plugged into a ground fault interrupt circuit.

If codes permit and a separate ground wire is used, it is recommended that a qualified electrical installer determine that the ground path is adequate.

A copy of the above code standards can be obtained from:

National Fire Protection Association
1 Batterymarch Park
Quincy, MA 02169-7471

CSA International
8501 East Pleasant Valley Road
Cleveland, OH 44131-5575

- A 120-volt, 60 Hz., AC only, 15-amp fused, electrical circuit is required. A time-delay fuse or circuit breaker is also recommended. It is recommended that a separate circuit serving only this range be provided.
- 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 and polarized.
- The wiring diagram is provided with this cooktop. See "Wiring Diagram" section.

Gas Supply Requirements

! WARNING



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 14" (36 cm) water column.

Examples of a qualified person include:

licensed heating personnel,
authorized gas company personnel, and
authorized service personnel.

Failure to do so can result in death, explosion, or fire.

Observe all governing codes and ordinances.

IMPORTANT: 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 - latest edition or CAN/CGA B149 - latest edition.

IMPORTANT: Leak testing of the range must be conducted according to the manufacturer's instructions.

Type of Gas

Natural Gas:

- This cooktop is factory-set for use with Natural gas. To convert to LP gas, see the Gas Conversion instructions provided in the package containing the literature. The model/serial/rating plate located on the underside of the burner box 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.

LP Gas conversion:

Conversion must be done by a qualified service technician.

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. See the Gas Conversion instructions provided in the package containing the literature.

Gas Supply Line

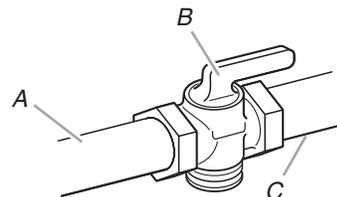
- Provide a gas supply line of 3/4" (1.9 cm) rigid pipe to the cooktop location. A smaller size pipe on longer runs may result in insufficient gas supply. Pipe-joint compounds that resist the action of LP gas must be used. Do not use TEFLON[†] tape. With LP gas, piping or tubing size can be 1/2" minimum. Usually, LP gas suppliers determine the size and materials used in the system.

Flexible metal appliance connector:

- If local codes permit, use a 5/8" flexible stainless steel tubing gas connector, designed by CSA to connect the cooktop to the rigid gas supply line.



- 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.
- Do not kink or damage the flexible metal tubing when moving the cooktop.
- Must include a shutoff valve:
The supply line must be equipped with a manual shutoff valve. This valve should be located in the same room but external to the cooktop opening, such as an adjacent cabinet. It should be in a location that allows ease of opening and closing. Do not block access to shutoff valve. The valve is for turning on or shutting off gas to the cooktop.



A. Gas supply line
B. Shutoff valve "open" position
C. To cooktop

Gas Pressure Regulator

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

Natural Gas:

Minimum pressure: 6" (15.2 cm) WCP

Maximum pressure: 14" (35.5 cm) WCP

LP Gas:

Minimum pressure: 11" (27.9 cm) WCP

Maximum pressure: 14" (35.5 cm) WCP

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

[†]TEFLON is a registered trademark of E.I. Du Pont De Nemours and Company.

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).

For elevations above 6,560 ft (1999.5 m) a high altitude kit is needed to avoid any reduced power output. See separate LP gas conversion instructions sheet.

Gas Supply Pressure Testing

Line pressure testing above ½ psi gauge (14" WCP)

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

Line pressure testing at ½ psi gauge (14" WCP) or lower

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

INSTALLATION INSTRUCTIONS

Prepare Cooktop for Installation

! WARNING

Excessive Weight Hazard

Use two or more people to move and install cooktop.

Failure to do so can result in back or other injury.

Write down the model and serial numbers before installing the cooktop. Both numbers are located on the center underside of the burner box.

Unpack the parts supplied with your cooktop. Do not unpack or remove the grates and burner bases from the carton until after the cooktop is installed to reduce the risk of scratching the cooktop.

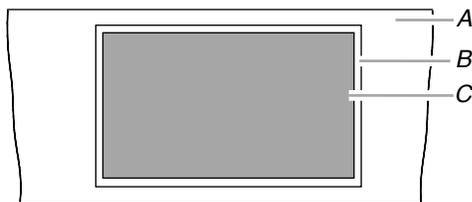
The parts shipped with the cooktop depend on the model ordered. See the "Tools and Parts" section for a complete list of parts supplied with the cooktop.

Decide on the final location for the cooktop. Locate existing wiring to avoid drilling into or severing wiring during installation.

The pressure regulator and flexible stainless steel gas supply line can be assembled to the cooktop before or after the cooktop is installed. See the "Make Gas Connection" section.

1. (Optional) Remove the foam strip from the hardware package. Remove the backing from the foam strip. Apply the foam strip with the adhesive side to the countertop on one of the edge of the cutout, front, back and sides.

NOTE: The foam strip helps keep the underside of the cooktop frame free from debris and helps the cooktop sit flat on uneven countertops.



A. Countertop
B. Foam strip
C. Cutout

Install Cooktop

Install the pressure regulator to the cooktop before installing the cooktop. See the "Make Gas Connections" section.

Cooktop over built-in oven

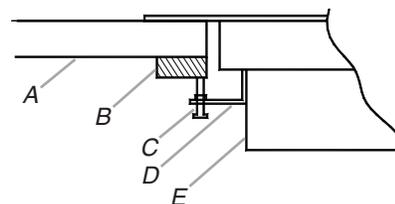
IMPORTANT: Clamping brackets should not be used.

1. Install the cooktop into the countertop cutout by tilting one end of the cooktop into the cutout, then lowering the other end into the cutout.

NOTE: Make sure that the front edge of the cooktop is parallel to the front edge of the countertop. If repositioning is needed, lift the entire cooktop up to avoid scratching the countertop.

Install cooktop into countertop

1. Remove the 2 hold-down screws located in each side of the cooktop burner box.
2. Attach the 2 hold-down brackets to the burner box.
3. Install the mounted cooktop bracket into the countertop cutout by tilting one end of the cooktop into the cutout. Shift the cooktop to the side of the cutout the bracket was lowered into. Lower the other end into the cutout so the bracket clears the underside of the countertop. Center the cooktop in the opening, then completely lower the cooktop into the cutout.
4. Start the hold-down screws into the hold-down brackets.



A. Countertop
B. Wood block
C. Hold-down screw
D. Hold-down bracket
E. Burner box

5. Center the cooktop in the opening and, using a wood block between the screw and the countertop, moderately tighten the screws to secure cooktop.

IMPORTANT: Do not tighten screws directly against the countertop.

Make Gas Connection

⚠ WARNING



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 14" (36 cm) water column.

Examples of a qualified person include:

**licensed heating personnel,
authorized gas company personnel, and
authorized service personnel.**

Failure to do so can result in death, explosion, or fire.

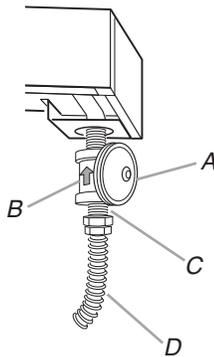
To Assemble Pressure Regulator:

1. Connect the flexible stainless steel connector to the pressure regulator using a 1/2" male pipe thread adapter.

A combination of pipe fittings must be used to connect the cooktop to the existing gas line. Shown in the following illustration is a typical connection. Your connection may be different, according to the supply line type, size and location.

NOTE: When installing the cooktop above a built-in oven, install a 90° elbow - 1/2" female to 1/2" male between the cooktop manifold pipe and the pressure regulator. The regulator must be set with the arrow pointing toward the cooktop. Apply pipe joint compound for use with LP gas to the end of the cooktop manifold pipe and the male end of the 90° elbow.

2. Install the pressure regulator with the arrow pointing up toward the bottom of the burner box and in a position where you can reach the regulator.



- A. Gas pressure regulator
- B. Up arrow - regulator must be installed with arrow pointing up at cooktop bottom.
- C. Adapter - must have 1/2" male pipe thread
- D. UL listed or CSA approved flexible stainless steel gas supply line

IMPORTANT: All connections must be wrench-tightened. Do not make connections to the gas regulator too tight. Making the connections too tight may crack the regulator and cause a gas leak. Do not allow the regulator to turn on the pipe when tightening fittings.

Use only pipe-joint compound made for use with Natural and LP gas.

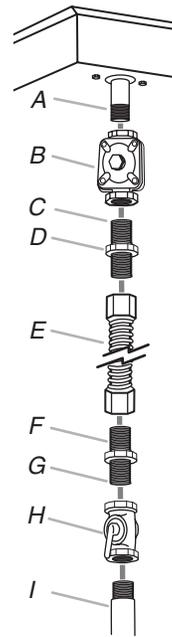
Do not use TEFLON® tape. You will need to determine the fittings required depending on your installation.

Typical flexible connection

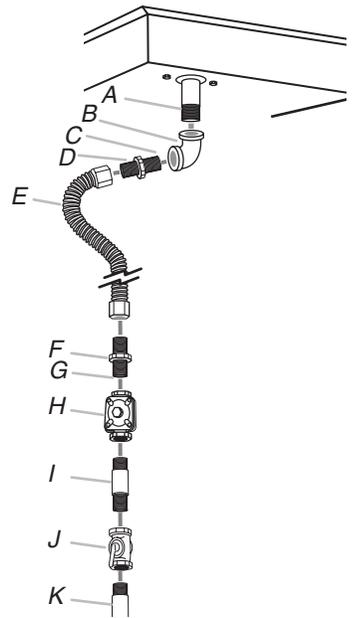
1. Apply pipe-joint compound made for use with LP gas to the larger thread ends of the flexible connector adapters (see D and F in the following illustration).
2. Attach 1 adapter to the gas pressure regulator and the other adapter to the gas shutoff valve. Tighten both adapters.
3. Use a 15/16" combination wrench and channel lock pliers to attach the flexible connector to the adapters. Check that connector is not kinked.

No appliance/obstructions below cooktop

Suggested installation to avoid interference below cooktop



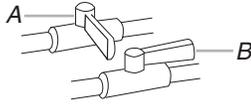
- A. Manifold entrance
- B. Gas pressure regulator
- C. Use pipe-joint compound.
- D. Adapter (must have 1/2" male pipe thread)
- E. Flexible connector
- F. Adapter
- G. Use pipe-joint compound.
- H. Manual gas shutoff valve
- I. 1/2" or 3/4" gas pipe



- A. Manifold entrance
- B. 3/8" elbow
- C. Use pipe-joint compound.
- D. Adapter (must have 3/8" male pipe thread)
- E. Flexible connector (pass through wall between cabinets)
- F. Adapter (must have 3/8" male pipe thread)
- G. Use pipe-joint compound.
- H. Appliance pressure regulator (supplied)
- I. 1/2" or 3/4" gas pipe
- J. Manual gas shutoff valve
- K. 1/2" or 3/4" gas pipe

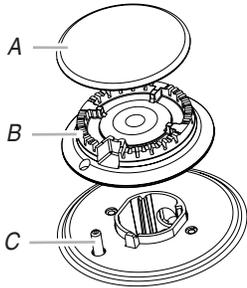
Complete Connection

1. Open the manual shutoff valve in the gas supply line. The valve is open when the handle is parallel to the gas pipe.



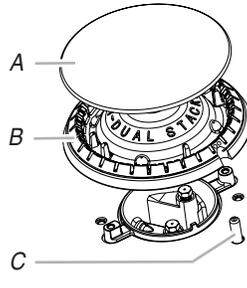
A. Closed valve
B. Open valve

2. Test all connections by brushing on an approved noncorrosive leak-detection solution. If bubbles appear, a leak is indicated. Correct any leak found.
3. Install all burner caps and burner bases.



Standard Burner

- A. Cap
B. Spreader
C. Electrode



Dual Flame Burner

- A. Cap
B. Spreader
C. Electrode

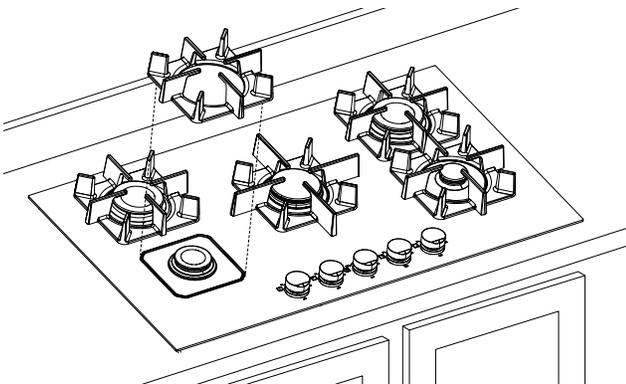
Burner installation:

To install the burner base, insert the igniter electrode into the burner base hole.

Install surface grates:

Each burner has a locating ridge on the cooktop surface that mates with the bottom of the surface grate. To install the burner grate; align the recess in the burner grate with the locating ridge on the cooktop. Evenly and gently lower the burner grate onto the cooktop surface. Ensure the four rubber feet of the surface grate are contacting the cooktop surface. If all four feet are not touching, remove the surface grate and ensure that the mating surfaces are debris-free. Reinstall burner grate.

NOTE: On 36" (91.4 cm) models; the center surface grate is different than the left and right grates.



⚠ WARNING



Electrical Shock Hazard

Plug into a grounded 3 prong outlet.

Do not remove ground prong.

Do not use an adapter.

Do not use an extension cord.

Failure to follow these instructions can result in death, fire, or electrical shock.

4. Plug into a grounded 3 prong outlet.

Complete Installation

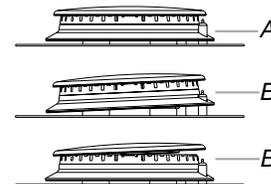
Electronic Ignition System

Check Operation of Surface Burners

1. Push in and turn the surface burner control knobs to the HI position.
The surface burner flame should light within 4 seconds. The first time a surface burner is lit, it may take longer than 4 seconds to light because of air in the gas line.
2. Check the flame on HI for a blue color. It should be clean and soft in character. No yellow tip, blowing or lifting of flame should occur. Occasional orange flashes are normal and reflect different elements in the air or gas.
3. Repeat for the LO position.
4. Repeat for the SIM position.
5. After verifying the proper burner operation, turn the control knobs to OFF.

If burners do not light properly:

- Turn the surface burner control knob to the OFF position.
- Check that the power supply cord is plugged in and the circuit breaker has not tripped or the fuse blown.
- Check that the gas shutoff valve is set to the "open" position.
- Check that the burner bases and caps are properly positioned on the burners.



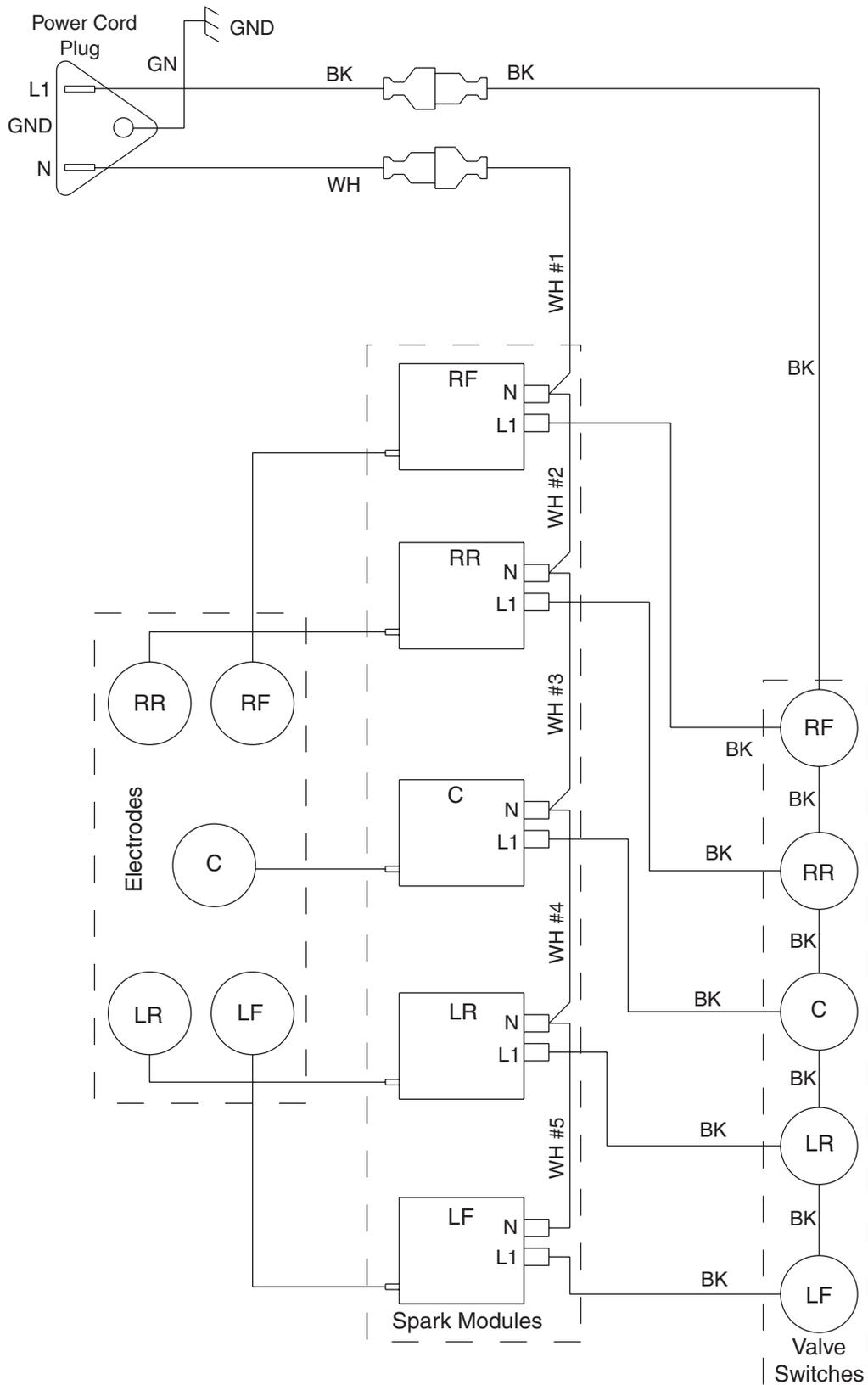
A. Correct
B. Incorrect

Recheck the operation of the surface burners. If a burner does not light at this point, call **1-800-JENN-AIR (536-6247)**.

WIRING DIAGRAM

30" (76.2 cm) and 36" (91.4 cm) Cooktops

120 VAC, 60 Hz, 1 Phase, 15 Amp



NOTE: Electric circuit is closed when knob is pushed in and rotated from 0° to 210° counterclockwise from OFF.

